

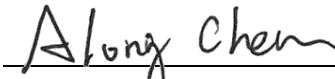
FCC Test Report

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 27
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

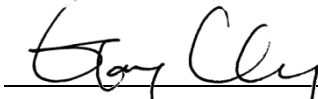

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FG132502-04P27L	Rev. 01	Initial issue	Apr. 18, 2023

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 27.50(d)(4)	Equivalent Isotropically Radiated Power	Maximum EIRP[dBm]: 24.64	Pass
2.1053 / 27.53(h)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(h)	Conducted Emissions	Meet the requirement of limit	Pass
27.53(h)	Band Edge Measurement	Meet the requirement of limit	Pass
2.1049 / 27.53(h)	Occupied Bandwidth	Meet the requirement of limit	Pass
27.50(d)(5)	Peak to Average Ratio	Meet the requirement of limit	Pass
2.1055 / 27.54	Frequency Stability	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
XSquare	XS5G01-GBO	5G SOM	With GPS Component
	XS5G01-GBI		Without GPS Component
✦ The above models, model XS5G01-GBO was selected as a representative one for the final test and only its data was recorded in this report.			

1.1.2 Specification of the Equipment under Test (EUT)

Operating Frequency	LTE Band 4: Channel Bandwidth: 1.4MHz: 1710.7~1754.3 MHz Channel Bandwidth: 3MHz: 1711.5 MHz ~ 1753.5 MHz Channel Bandwidth: 5MHz: 1712.5 MHz ~ 1752.5 MHz Channel Bandwidth: 10MHz: 1715.0 MHz ~ 1750.0 MHz Channel Bandwidth: 15MHz: 1717.5 MHz ~ 1747.5 MHz Channel Bandwidth: 20MHz: 1720.0 MHz ~ 1745.0MHz LTE Band 66: Channel Bandwidth: 1.4MHz: 1710.7~1779.3 MHz Channel Bandwidth: 3MHz: 1711.5 MHz ~ 1778.5 MHz Channel Bandwidth: 5MHz: 1712.5 MHz ~ 1777.5 MHz Channel Bandwidth: 10MHz: 1715.0 MHz ~ 1775.0 MHz Channel Bandwidth: 15MHz: 1717.5 MHz ~ 1772.5 MHz Channel Bandwidth: 20MHz: 1720.0 MHz ~ 1770.0 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	1.9

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 4			
Channel Bandwidth (MHz)	Modulation	Maximum Conducted Power (W)	Emission Designator
1.4 MHz	QPSK	0.181	1M09G7D
1.4 MHz	16QAM	0.152	1M09W7D
1.4 MHz	64QAM	0.120	1M09W7D
1.4 MHz	256QAM	0.061	1M08W7D
3 MHz	QPSK	0.177	2M68G7D
3 MHz	16QAM	0.150	2M68W7D
3 MHz	64QAM	0.122	2M68W7D
3 MHz	256QAM	0.061	2M68W7D
5 MHz	QPSK	0.181	4M47G7D
5 MHz	16QAM	0.149	4M47W7D
5 MHz	64QAM	0.121	4M47W7D
5 MHz	256QAM	0.058	4M48W7D
10 MHz	QPSK	0.179	8M94G7D
10 MHz	16QAM	0.150	8M93W7D
10 MHz	64QAM	0.121	8M93W7D
10 MHz	256QAM	0.060	8M93W7D
15 MHz	QPSK	0.178	13M4G7D
15 MHz	16QAM	0.151	13M4W7D
15 MHz	64QAM	0.121	13M4W7D
15 MHz	256QAM	0.061	13M4W7D
20 MHz	QPSK	0.177	17M9G7D
20 MHz	16QAM	0.150	17M8W7D
20 MHz	64QAM	0.118	17M8W7D
20 MHz	256QAM	0.058	17M9W7D

LTE Band 66			
Channel Bandwidth (MHz)	Modulation	Maximum Conducted Power (W)	Emission Designator
1.4 MHz	QPSK	0.186	1M09G7D
1.4 MHz	16QAM	0.153	1M09W7D
1.4 MHz	64QAM	0.120	1M09W7D
1.4 MHz	256QAM	0.060	1M08W7D
3 MHz	QPSK	0.182	2M68G7D
3 MHz	16QAM	0.150	2M68W7D
3 MHz	64QAM	0.117	2M68W7D
3 MHz	256QAM	0.060	2M68W7D
5 MHz	QPSK	0.182	4M47G7D
5 MHz	16QAM	0.150	4M47W7D
5 MHz	64QAM	0.116	4M47W7D
5 MHz	256QAM	0.060	4M48W7D
10 MHz	QPSK	0.180	8M94G7D
10 MHz	16QAM	0.147	8M93W7D
10 MHz	64QAM	0.119	8M93W7D
10 MHz	256QAM	0.061	8M93W7D
15 MHz	QPSK	0.183	13M4G7D
15 MHz	16QAM	0.150	13M4W7D
15 MHz	64QAM	0.119	13M4W7D
15 MHz	256QAM	0.061	13M4W7D
20 MHz	QPSK	0.188	17M9G7D
20 MHz	16QAM	0.149	17M8W7D
20 MHz	64QAM	0.122	17M8W7D
20 MHz	256QAM	0.060	17M9W7D

1.1.7 Operating Channel List

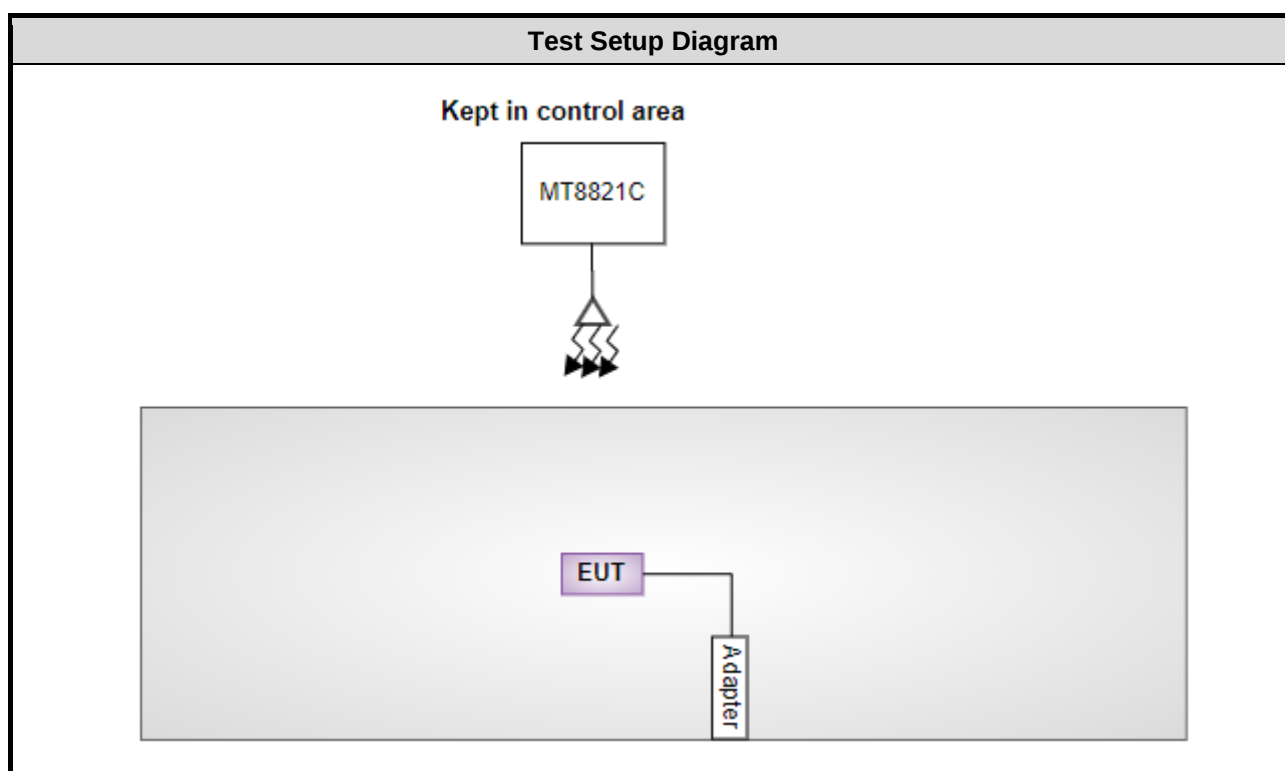
LTE Band 4		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
1.4	19957	1710.7
1.4	20175	1732.5
1.4	20393	1754.3
3	19965	1711.5
3	20175	1732.5
3	20385	1753.5
5	19975	1712.5
5	20175	1732.5
5	20375	1752.5
10	20000	1715.0
10	20175	1732.5
10	20350	1750.0
15	20025	1717.5
15	20175	1732.5
15	20325	1747.5
20	20050	1720.0
20	20175	1732.5
20	20300	1745.0

LTE Band 66		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
1.4	131979	1710.7
1.4	132322	1745.0
1.4	132665	1779.3
3	131987	1711.5
3	132322	1745.0
3	132657	1778.5
5	131997	1712.5
5	132322	1745.0
5	132647	1777.5
10	132022	1715.0
10	132322	1745.0
10	132622	1775.0
15	132047	1717.5
15	132322	1745.0
15	132597	1772.5
20	132072	1720.0
20	132322	1745.0
20	132572	1770.0

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 INSTRON	GPC-6030D	GES855395	Oct. 31, 2022	Oct. 30, 2023
Measurement Software	Sporton	SENSE-FCC_2G-4G	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 27
ANSI C63.26-2015

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

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

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	23-24°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	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Average Ratio	4	Covered by LTE Band66															
	66	-	-	-	-	-	v	v	v	v	v			v		v	
26dB and 99% Bandwidth	4	Covered by LTE Band66															
	66	v	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band edge	4	Covered by LTE Band66															
	66	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	4	Covered by LTE Band66															
	66	v	v	v	v	v	v	v				v			v	v	v
Frequency Stability	4	Covered by LTE Band66															
	66						v	v						v		v	
E.R.P /E.I.R.P	4	v	v	v	v	v	v	v	v	v	v	Max. power					
	66	v	v	v	v	-	-	v	v	v	v						
Radiated Spurious Emission	4	Covered by LTE Band66													v	v	v
	66	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 Equivalent Isotropically Radiated Power

3.1.1 Limit of Equivalent Isotropically Radiated Power

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 Watt EIRP.

3.1.2 Test Procedures

For E.I.R.P measurement

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

1. $EIRP = P_T + G_T - L_C$

P_T = transmitter output power, in dBm.

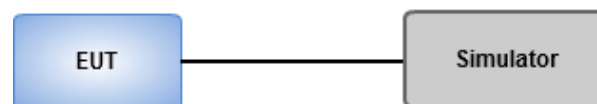
G_T = gain of the transmitting antenna, in dBi (EIRP).

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

For Conducted power measurement

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

3.1.3 Test Setup



3.1.4 Test Result of Equivalent Isotropically Radiated Power and Conducted Power (dBm)

Refer to Appendix A.1, A.2.

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

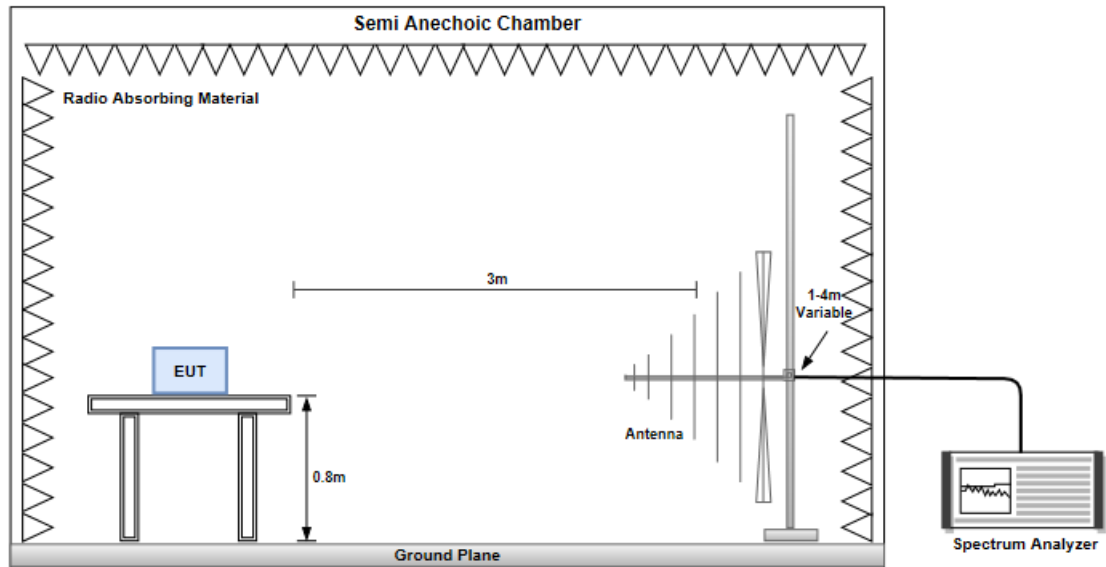
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13 dBm.

3.2.2 Test Procedures

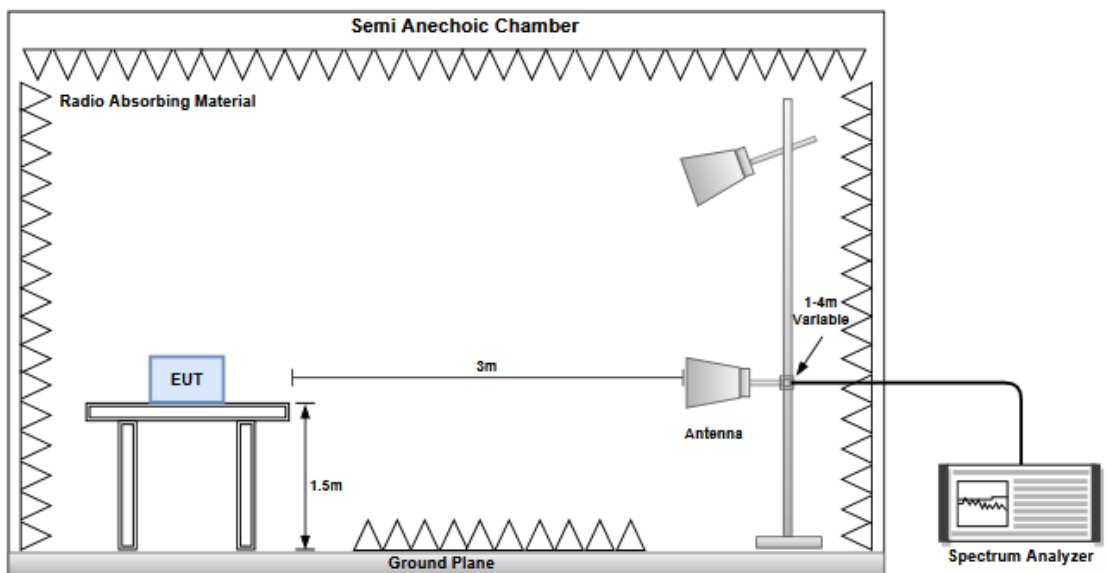
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions

Refer to Appendix B.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

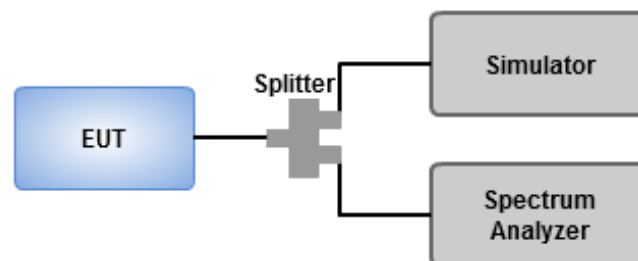
Out of band emission

1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30 MHz ~ 20 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 Out of Band Emissions & Band Edge

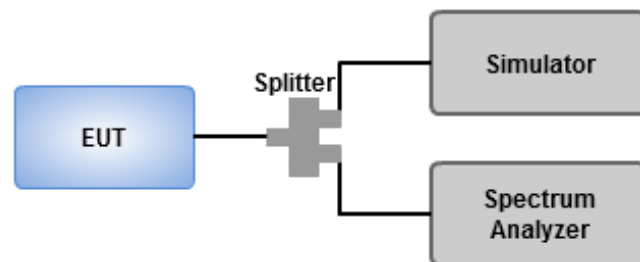
Refer to Appendix C.1, C.2.

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

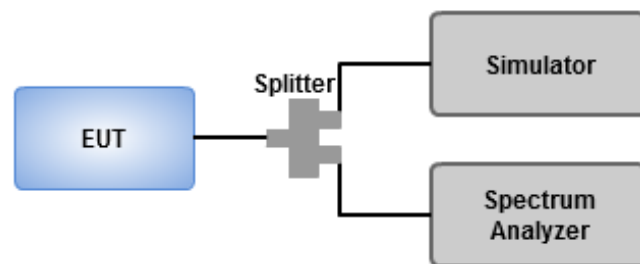
3.5.1 Limit of Peak to Average Power Ratio

The 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 Power Ratio

Refer to Appendix E.1.

3.6 Frequency Stability

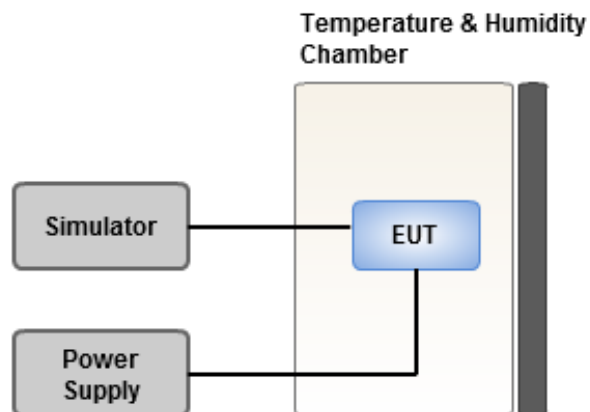
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. The test shall be performed under normal and extreme condition for temperature and voltage.
4. Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Refer to Appendix F.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

Part27L LTE Band 66 Maximum Average Power [dBm](GT-LC= 1.9 dB)								
BW (MHz)	Modulation	RB Size	RB Offset	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
Channel				132072	132322	132572		
Frequency				1720	1745	1770		
20	QPSK	1	0	22.48	22.54	22.74	24.64	0.2911
20	QPSK	1	99	22.35	22.46	22.71		
20	QPSK	100	0	21.36	21.52	21.72		
20	16QAM	1	0	21.54	21.73	21.72	23.63	0.2307
20	64QAM	1	0	20.82	20.65	20.85	22.75	0.1884
20	256QAM	1	0	17.63	17.67	17.81	19.71	0.0935
Channel				132047	132322	132597	EIRP (dBm)	EIRP (W)
Frequency				1717.5	1745	1772.5		
15	QPSK	1	0	22.38	22.41	22.63	24.53	0.2838
15	QPSK	1	74	22.32	22.39	22.61		
15	QPSK	75	0	21.36	21.45	21.68		
15	16QAM	1	0	21.45	21.67	21.75	23.65	0.2317
15	64QAM	1	0	20.66	20.65	20.76	22.66	0.1845
15	256QAM	1	0	17.55	17.74	17.84	19.74	0.0942
Channel				132022	132322	132622	EIRP (dBm)	EIRP (W)
Frequency				1715	1745	1775		
10	QPSK	1	0	22.49	22.46	22.56	24.46	0.2793
10	QPSK	1	49	22.43	22.42	22.54		
10	QPSK	50	0	21.36	21.42	21.68		
10	16QAM	1	0	21.49	21.55	21.68	23.58	0.2280
10	64QAM	1	0	20.76	20.56	20.63	22.66	0.1845
10	256QAM	1	0	17.82	17.54	17.78	19.72	0.0938
Channel				131997	132322	132647	EIRP (dBm)	EIRP (W)
Frequency				1712.5	1745	1777.5		
5	QPSK	1	0	22.39	22.47	22.61	24.51	0.2825
5	QPSK	1	24	22.36	22.35	22.55		
5	QPSK	25	0	21.35	21.47	21.64		
5	16QAM	1	0	21.59	21.64	21.75	23.65	0.2317
5	64QAM	1	0	20.65	20.64	20.63	22.55	0.1799
5	256QAM	1	0	17.76	17.53	17.72	19.66	0.0925



Equivalent Isotropically Radiated Power

Appendix A.1

Channel				131987	132322	132657	EIRP (dBm)	EIRP (W)
Frequency				1711.5	1745	1778.5		
3	QPSK	1	0	22.36	22.49	22.61	24.51	0.2825
3	QPSK	1	14	22.34	22.42	22.55		
3	QPSK	15	0	21.25	21.46	21.65		
3	16QAM	1	0	21.49	21.65	21.76	23.66	0.2323
3	64QAM	1	0	20.63	20.53	20.69	22.59	0.1816
3	256QAM	1	0	17.46	17.57	17.75	19.65	0.0923
Channel				131979	132322	132665	EIRP (dBm)	EIRP (W)
Frequency				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.37	22.58	22.69	24.59	0.2877
1.4	QPSK	1	5	22.23	22.45	22.58		
1.4	QPSK	6	0	21.36	21.47	21.67		
1.4	16QAM	1	0	21.52	21.57	21.85	23.75	0.2371
1.4	64QAM	1	0	20.72	20.63	20.79	22.69	0.1858
1.4	256QAM	1	0	17.57	17.46	17.75	19.65	0.0923
Limit	EIRP < 1 W			Result			Pass	

Summary

Part27L LTE Band 4 MaxiMum Average Power [dBm](GT-LC= 1.9 dB)								
BW (MHz)	Modulation	RB Size	RB Offset	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
Channel				20050	20175	20300		
Frequency				1720	1732.5	1745		
20	QPSK	1	0	22.36	22.48	22.47	24.38	0.2742
20	QPSK	1	99	22.35	22.41	22.46		
20	QPSK	100	0	21.29	21.58	21.43		
20	16QAM	1	0	21.61	21.77	21.69	23.67	0.2328
20	64QAM	1	0	20.66	20.61	20.71	22.61	0.1824
20	256QAM	1	0	17.65	17.46	17.53	19.55	0.0902
Channel				20025	20175	20325	EIRP (dBm)	EIRP (W)
Frequency				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.36	22.51	22.49		
15	QPSK	1	74	22.34	22.35	22.46	24.41	0.2761
15	QPSK	75	0	21.34	21.57	21.49		
15	16QAM	1	0	21.73	21.56	21.79	23.69	0.2339
15	64QAM	1	0	20.75	20.74	20.82	22.72	0.1871
15	256QAM	1	0	17.81	17.72	17.88	19.78	0.0951
Channel				20000	20175	20350	EIRP (dBm)	EIRP (W)
Frequency				1715	1732.5	1750		
10	QPSK	1	0	22.46	22.53	22.5		
10	QPSK	1	49	22.36	22.51	22.48	24.43	0.2773
10	QPSK	50	0	21.35	21.54	21.55		
10	16QAM	1	0	21.75	21.67	21.76	23.66	0.2323
10	64QAM	1	0	20.72	20.74	20.82	22.72	0.1871
10	256QAM	1	0	17.76	17.72	17.57	19.66	0.0925
Channel				19975	20175	20375	EIRP (dBm)	EIRP (W)
Frequency				1712.5	1732.5	1752.5		
5	QPSK	1	0	22.42	22.45	22.58		
5	QPSK	1	24	22.32	22.43	22.49	24.48	0.2805
5	QPSK	25	0	21.38	21.45	21.54		
5	16QAM	1	0	21.57	21.65	21.72	23.62	0.2301
5	64QAM	1	0	20.63	20.82	20.83	22.73	0.1875
5	256QAM	1	0	17.65	17.66	17.65	19.56	0.0904



Equivalent Isotropically Radiated Power

Appendix A.2

Channel				19965	20175	20385	EIRP (dBm)	EIRP (W)
Frequency				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.42	22.49	22.48	24.39	0.2748
3	QPSK	1	14	22.38	22.43	22.47		
3	QPSK	15	0	21.39	21.47	21.53		
3	16QAM	1	0	21.76	21.56	21.58	23.66	0.2323
3	64QAM	1	0	20.73	20.83	20.86	22.76	0.1888
3	256QAM	1	0	17.69	17.87	17.61	19.77	0.0948
Channel				19957	20175	20393	EIRP (dBm)	EIRP (W)
Frequency				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.41	22.57	22.49	24.47	0.2799
1.4	QPSK	1	5	22.35	22.55	22.48		
1.4	QPSK	6	0	21.43	21.53	21.59		
1.4	16QAM	1	0	21.82	21.68	21.66	23.72	0.2355
1.4	64QAM	1	0	20.63	20.71	20.78	22.68	0.1854
1.4	256QAM	1	0	17.88	17.82	17.65	19.78	0.0951
Limit	EIRP < 1 W			Result			Pass	

Mode	LTE Band 66, QPSK, CB:20 MHz, 1 RB, Channel: 132072						
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)
3422.4	H	-63.82	-13	-50.82	-72.6	-70.64	6.82
5133.6	H	-60.04	-13	-47.04	-71.53	-65.91	5.87
6844.8	H	-57.01	-13	-44.01	-72.15	-61.28	4.27
3422.4	V	-63.73	-13	-50.73	-72.55	-70.55	6.82
5133.6	V	-60.01	-13	-47.01	-71.55	-65.88	5.87
6844.8	V	-56.56	-13	-43.56	-71.65	-60.83	4.27

Mode	LTE Band 66, QPSK, CB:20 MHz, 1 RB, Channel: 132322						
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)
3472.4	H	-63.88	-13	-50.88	-72.83	-70.5	6.62
5208.6	H	-60.17	-13	-47.17	-71.5	-65.97	5.8
6944.8	H	-57.58	-13	-44.58	-72.02	-61.41	3.83
3472.4	V	-63.74	-13	-50.74	-72.77	-70.36	6.62
5208.6	V	-60.3	-13	-47.3	-71.64	-66.1	5.8
6944.8	V	-56.06	-13	-43.06	-71.12	-59.89	3.83

Mode	LTE Band 66, QPSK, CB:20 MHz, 1 RB, Channel: 132572						
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)
3522.4	H	-63.52	-13	-50.52	-72.61	-69.94	6.42
5283.6	H	-59.88	-13	-46.88	-71.55	-65.93	6.05
7044.8	H	-57.22	-13	-44.22	-71.34	-60.63	3.41
3522.4	V	-63.45	-13	-50.45	-72.68	-69.87	6.42
5283.6	V	-59.92	-13	-46.92	-71.61	-65.97	6.05
7044.8	V	-55.87	-13	-42.87	-71.04	-59.28	3.41

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

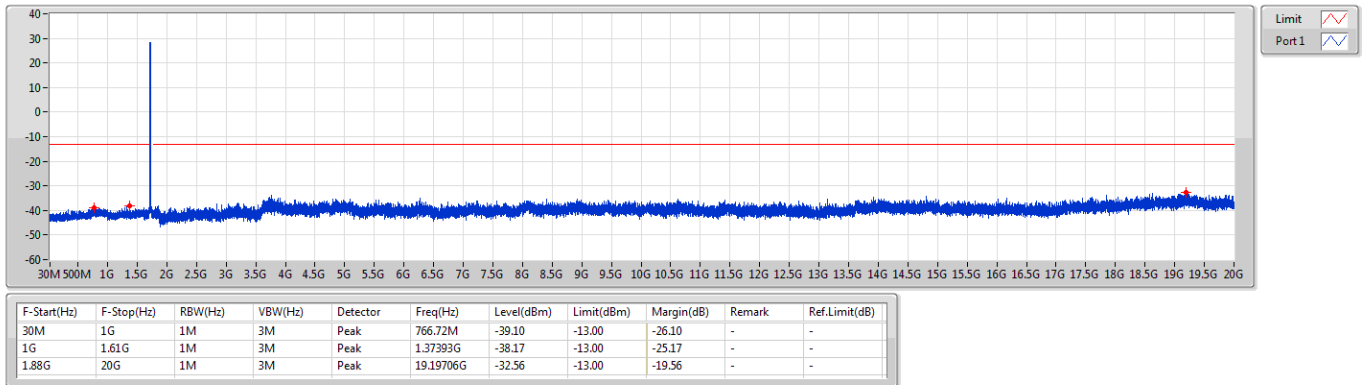
**Summary**

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 66	-	-	-	-	-	-	-	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	1.88G	20G	1M	3M	Peak	19.19706G	-32.56	-13.00	-19.56	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	1.88G	20G	1M	3M	Peak	19.2701G	-32.23	-13.00	-19.23	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	1.88G	20G	1M	3M	Peak	18.8641G	-32.51	-13.00	-19.51	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	1.88G	20G	1M	3M	Peak	19.25821G	-31.51	-13.00	-18.51	-	-
LTE_3MHz_Nss1,QPSK_1TX	Pass	1.88G	20G	1M	3M	Peak	19.23047G	-32.42	-13.00	-19.42	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	1.88G	20G	1M	3M	Peak	19.12061G	-31.65	-13.00	-18.65	-	-



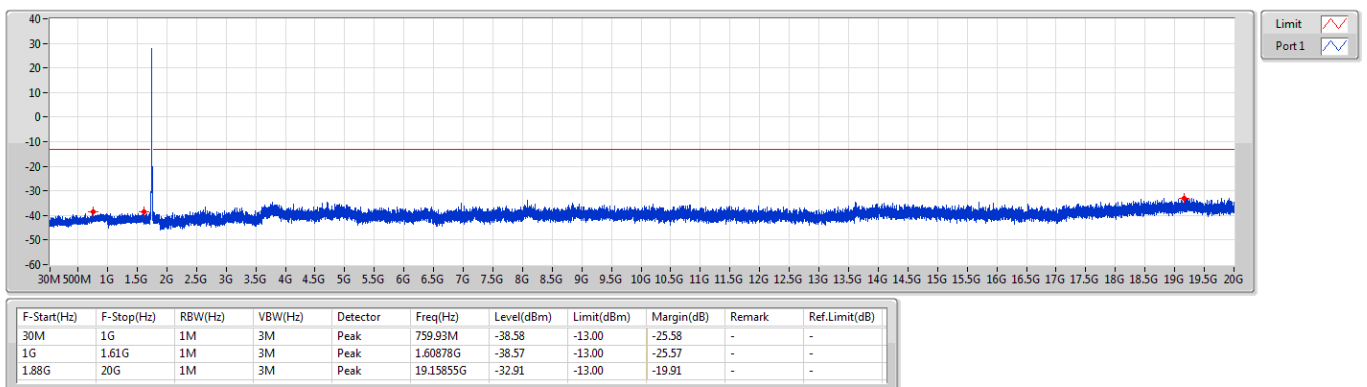
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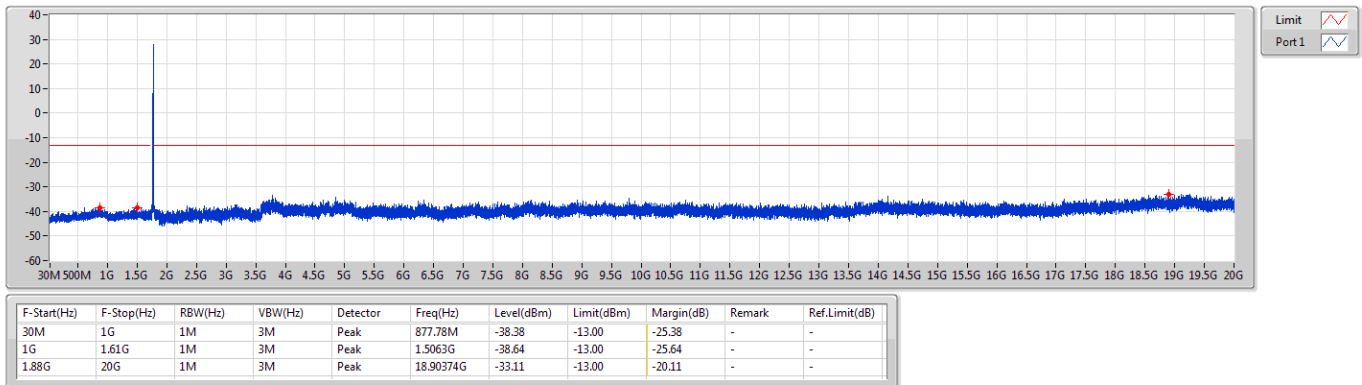
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CSE-TX-Sum



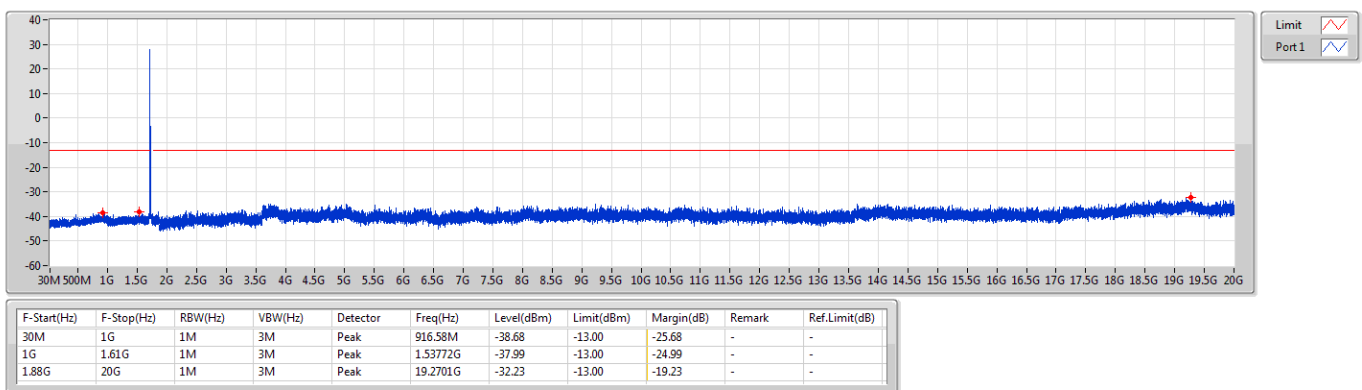
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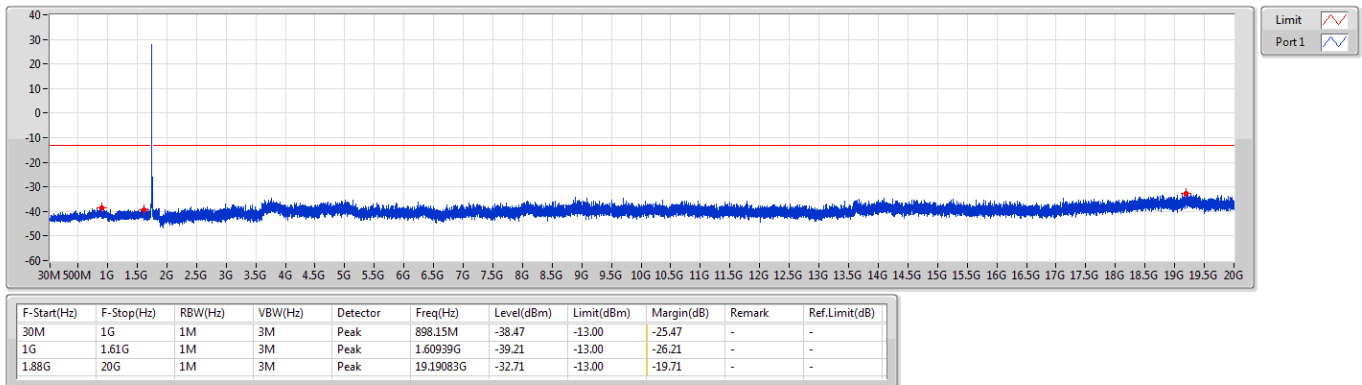
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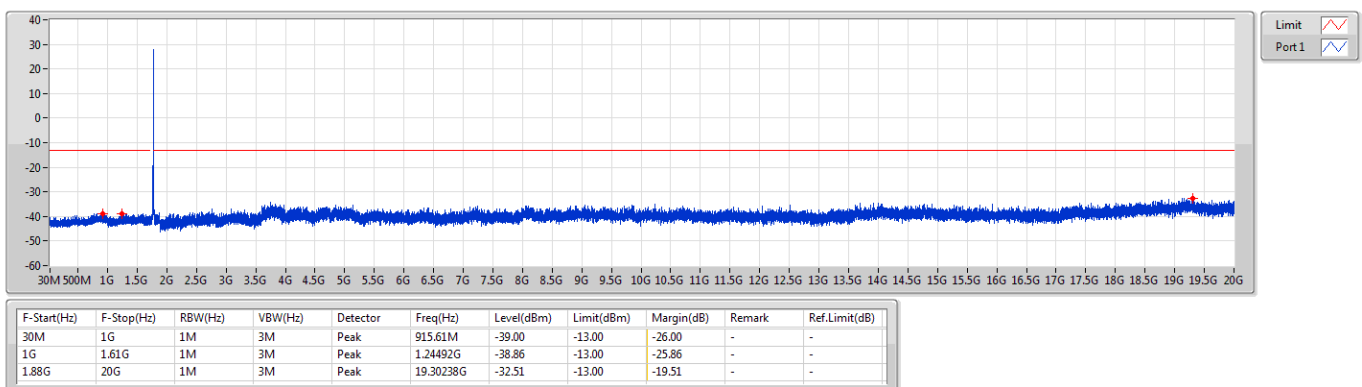
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1772.5MHz_QPSK_RB 1

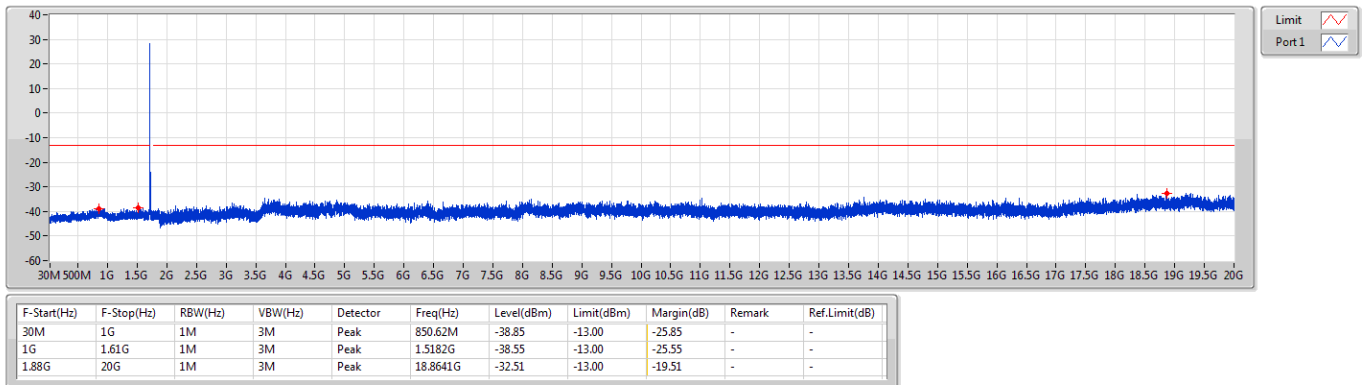
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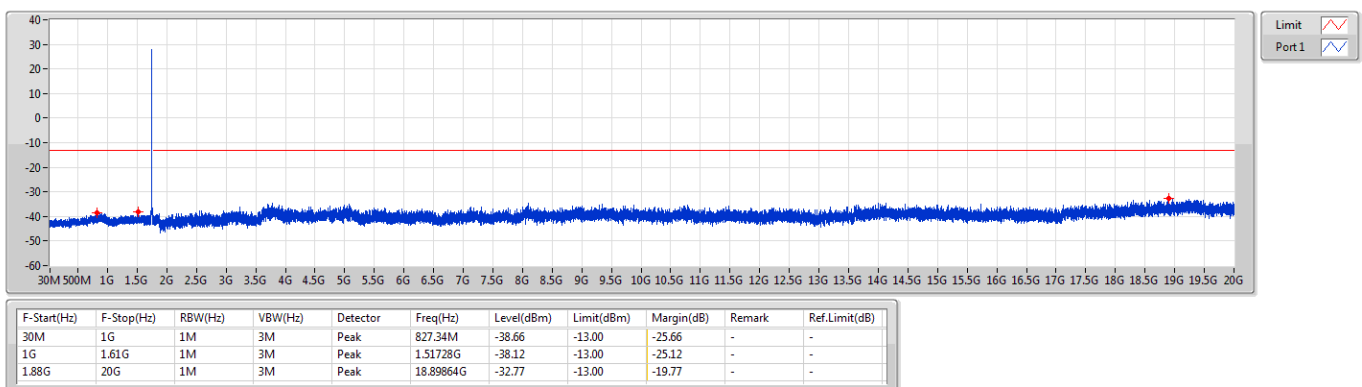
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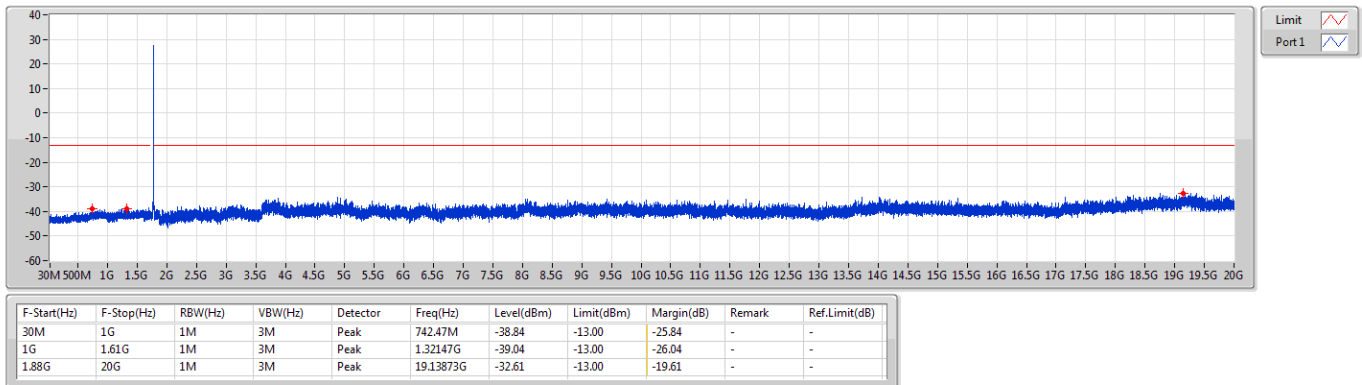
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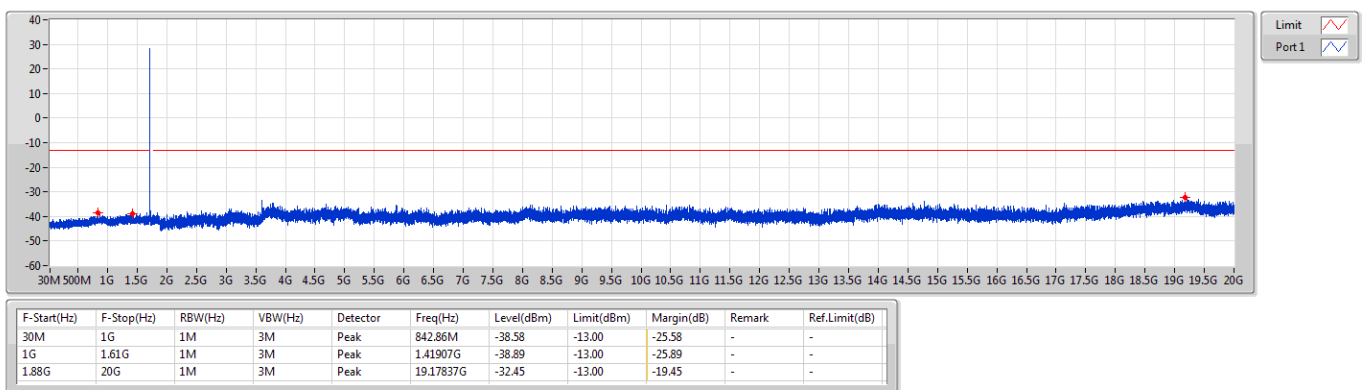
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CSE-TX-Sum



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1712.5MHz_QPSK_RB 1

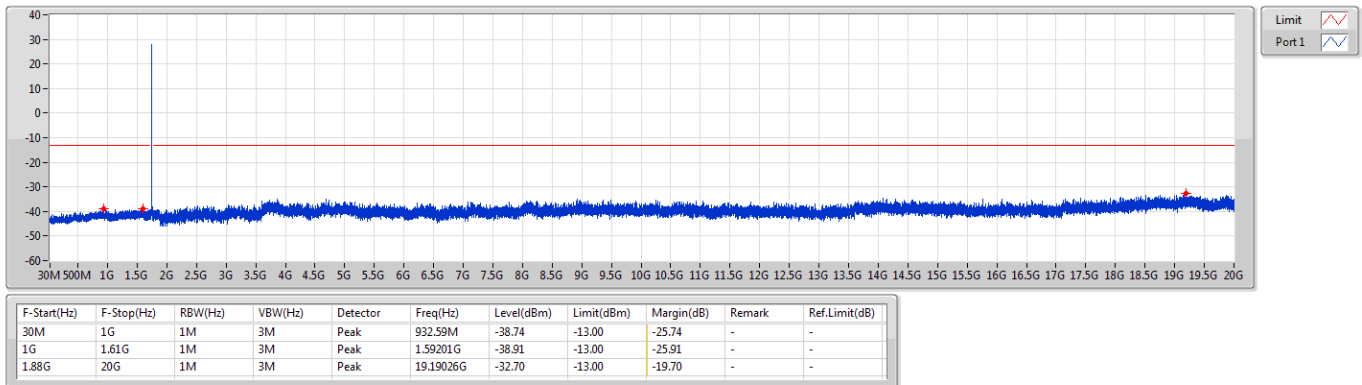
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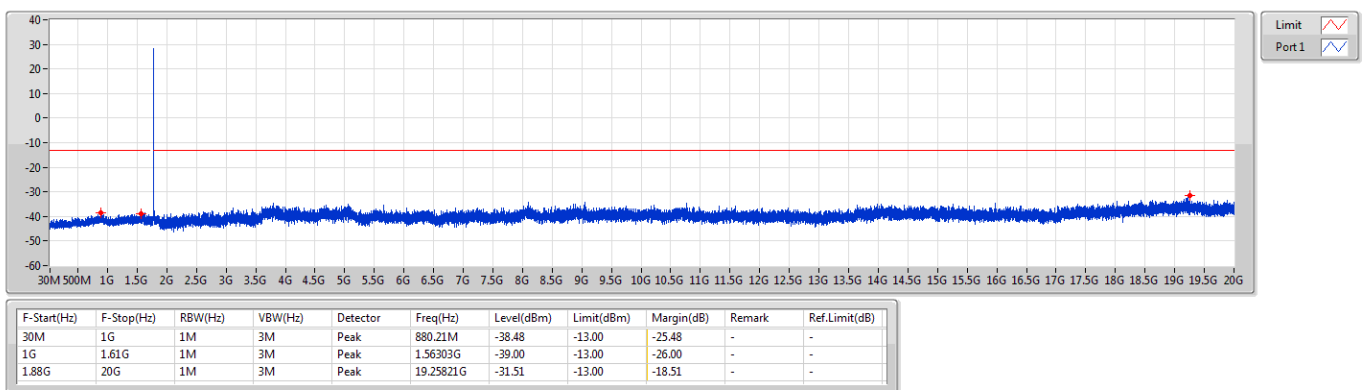
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CSE-TX-Sum



Band 66_LTE_5MHz_Nss1,QPSK_1TX
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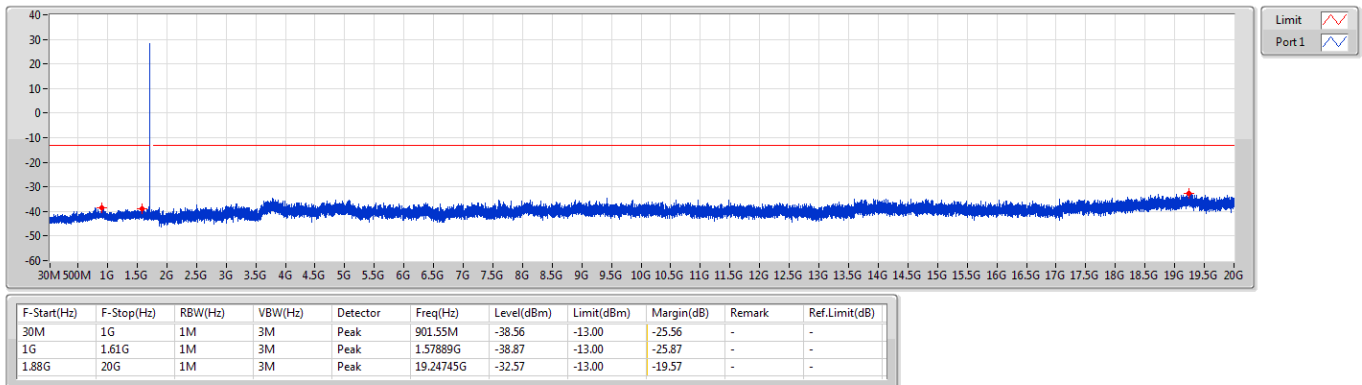
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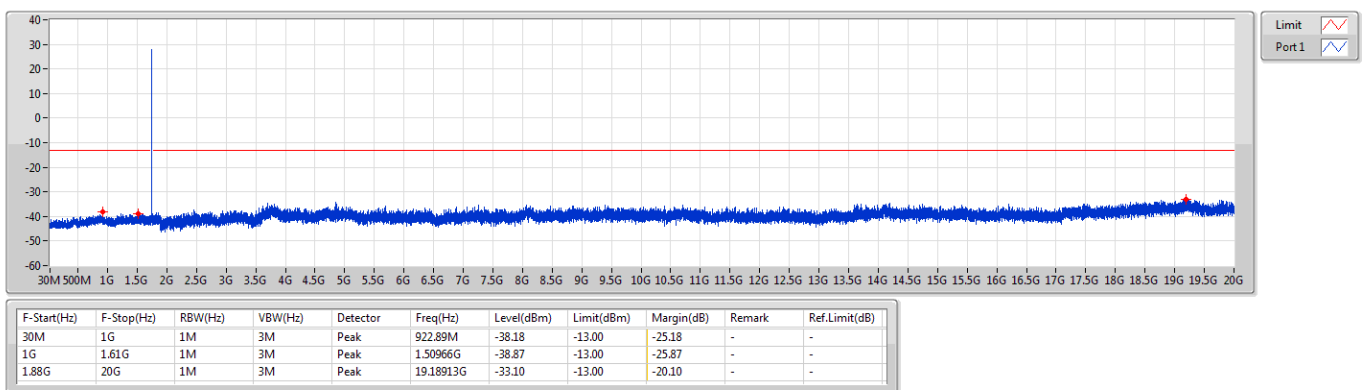
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CSE-TX-Sum



Band 66_LTE_3MHz_Nss1,QPSK_1TX
1745MHz_QPSK_RB 1

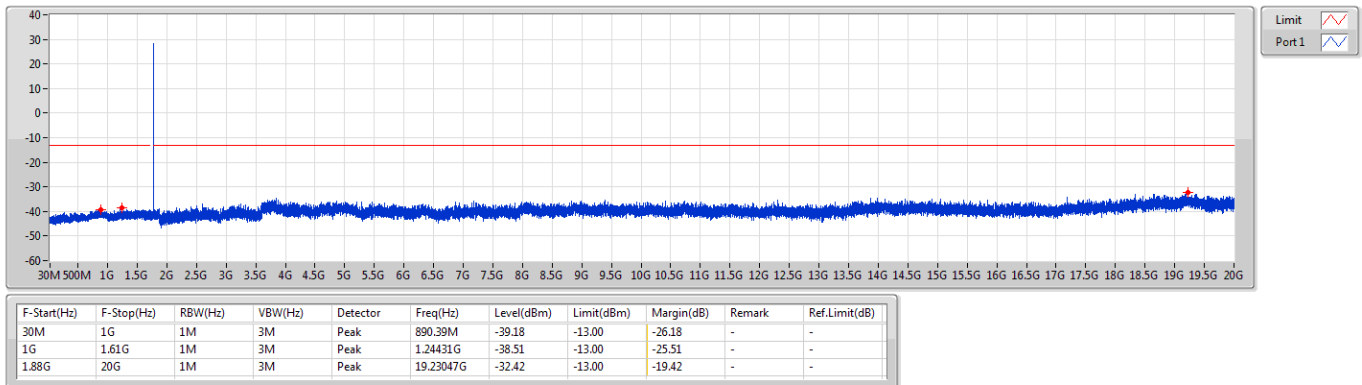
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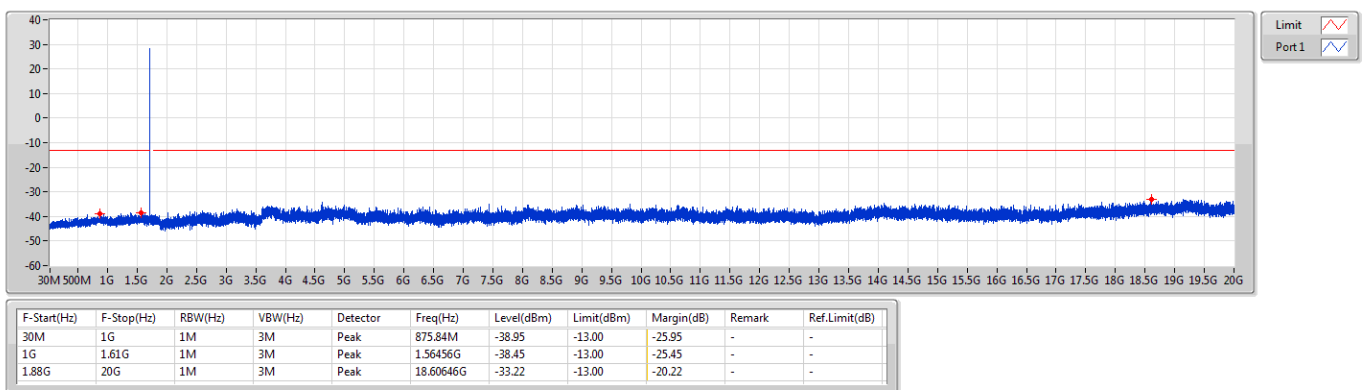
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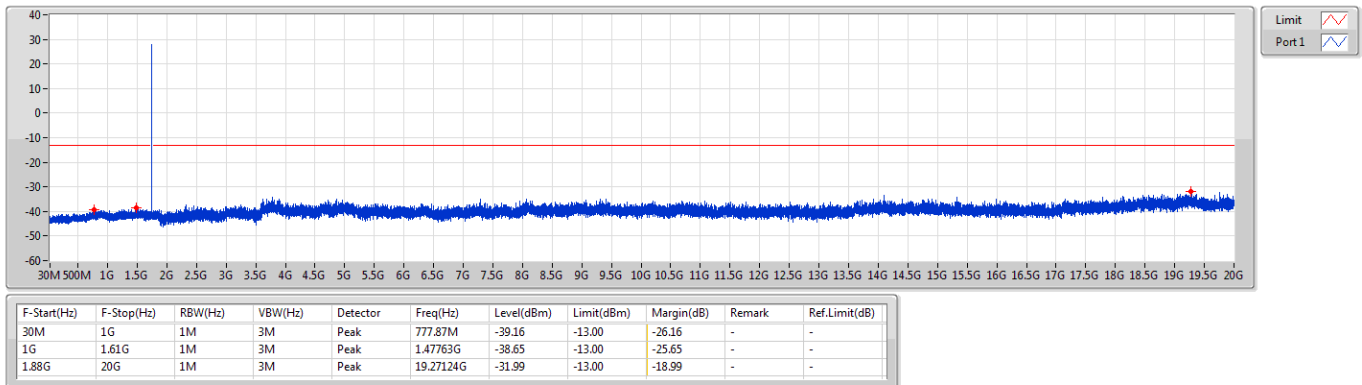
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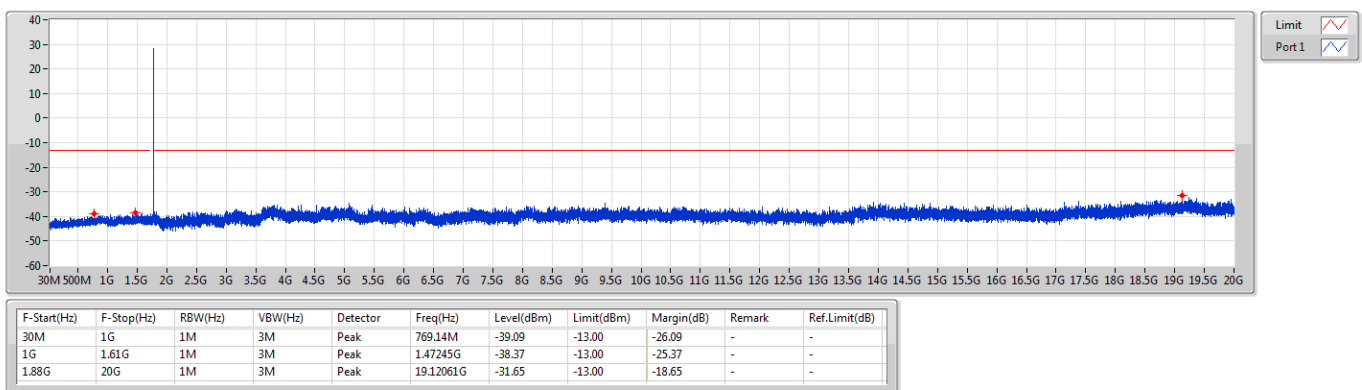
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1779.3MHz_QPSK_RB 1

CSE-TX-Sum



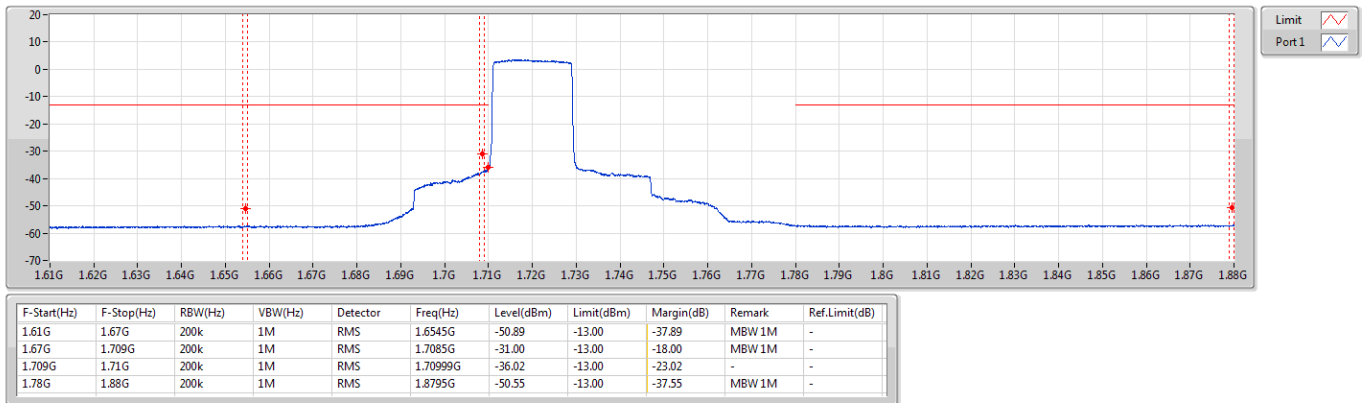
Summary

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 66	-	-	-	-	-	-	-	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	1.709G	1.71G	200k	1M	RMS	1.71G	-24.32	-13.00	-11.32	-	-
LTE_20MHz_Nss1,16QAM_1TX	Pass	1.78G	1.781G	200k	1M	RMS	1.78001G	-25.02	-13.00	-12.02	-	-
LTE_20MHz_Nss1,64QAM_1TX	Pass	1.709G	1.71G	200k	1M	RMS	1.70998G	-24.83	-13.00	-11.83	-	-
LTE_20MHz_Nss1,256QAM_1TX	Pass	1.78G	1.781G	200k	1M	RMS	1.78001G	-29.23	-13.00	-16.23	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	1.78G	1.781G	150k	470k	RMS	1.78001G	-22.97	-13.00	-9.97	-	-
LTE_15MHz_Nss1,16QAM_1TX	Pass	1.78G	1.781G	150k	470k	RMS	1.78001G	-21.78	-13.00	-8.78	-	-
LTE_15MHz_Nss1,64QAM_1TX	Pass	1.78G	1.781G	150k	470k	RMS	1.78004G	-23.57	-13.00	-10.57	-	-
LTE_15MHz_Nss1,256QAM_1TX	Pass	1.709G	1.71G	150k	470k	RMS	1.70998G	-27.12	-13.00	-14.12	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	1.709G	1.71G	100k	300k	RMS	1.71G	-21.11	-13.00	-8.11	-	-
LTE_10MHz_Nss1,16QAM_1TX	Pass	1.709G	1.71G	100k	300k	RMS	1.70999G	-20.70	-13.00	-7.70	-	-
LTE_10MHz_Nss1,64QAM_1TX	Pass	1.78G	1.781G	100k	300k	RMS	1.78G	-22.54	-13.00	-9.54	-	-
LTE_10MHz_Nss1,256QAM_1TX	Pass	1.709G	1.71G	100k	300k	RMS	1.70998G	-25.54	-13.00	-12.54	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	1.709G	1.71G	51k	200k	RMS	1.71G	-17.94	-13.00	-4.94	-	-
LTE_5MHz_Nss1,16QAM_1TX	Pass	1.78G	1.781G	51k	200k	RMS	1.78G	-18.01	-13.00	-5.01	-	-
LTE_5MHz_Nss1,64QAM_1TX	Pass	1.78G	1.781G	51k	200k	RMS	1.78G	-18.38	-13.00	-5.38	-	-
LTE_5MHz_Nss1,256QAM_1TX	Pass	1.78G	1.781G	51k	200k	RMS	1.78G	-22.64	-13.00	-9.64	-	-
LTE_3MHz_Nss1,QPSK_1TX	Pass	1.709G	1.71G	30k	100k	RMS	1.71G	-20.65	-13.00	-7.65	-	-
LTE_3MHz_Nss1,16QAM_1TX	Pass	1.709G	1.71G	30k	100k	RMS	1.71G	-20.15	-13.00	-7.15	-	-
LTE_3MHz_Nss1,64QAM_1TX	Pass	1.78G	1.781G	30k	100k	RMS	1.78G	-20.90	-13.00	-7.90	-	-
LTE_3MHz_Nss1,256QAM_1TX	Pass	1.78G	1.781G	30k	100k	RMS	1.78G	-25.15	-13.00	-12.15	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	1.709G	1.71G	20k	100k	RMS	1.71G	-22.25	-13.00	-9.25	-	-
LTE_1.4MHz_Nss1,16QAM_1TX	Pass	1.78G	1.781G	20k	100k	RMS	1.78G	-22.38	-13.00	-9.38	-	-
LTE_1.4MHz_Nss1,64QAM_1TX	Pass	1.709G	1.71G	20k	100k	RMS	1.71G	-22.43	-13.00	-9.43	-	-
LTE_1.4MHz_Nss1,256QAM_1TX	Pass	1.709G	1.71G	20k	100k	RMS	1.71G	-27.14	-13.00	-14.14	-	-



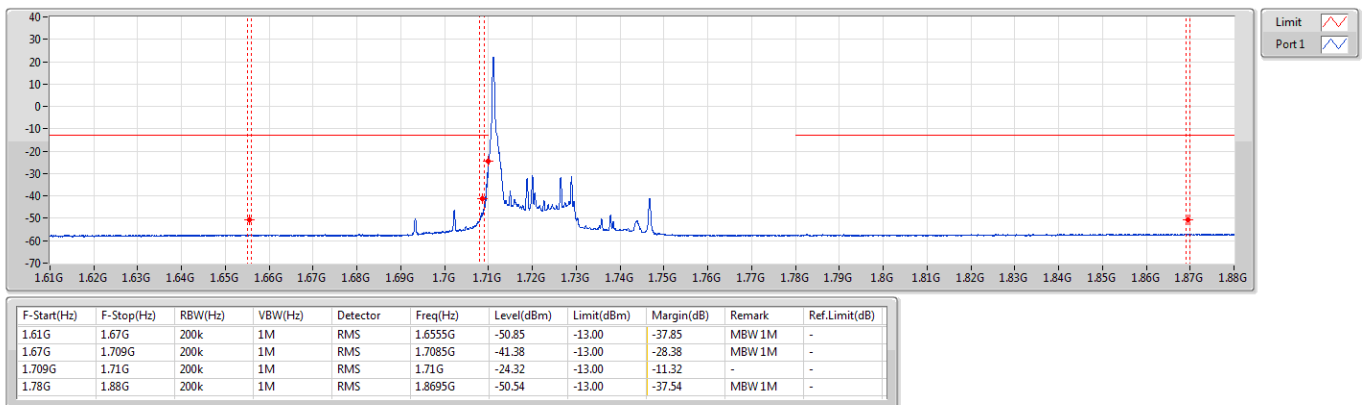
Band 66_LTE_20MHz_Nss1,QPSK_1TX
1720MHz_QPSK_RB 100,#RB 0

CSE-TX-Sum



Band 66_LTE_20MHz_Nss1,QPSK_1TX
1720MHz_QPSK_RB 1,#RB L

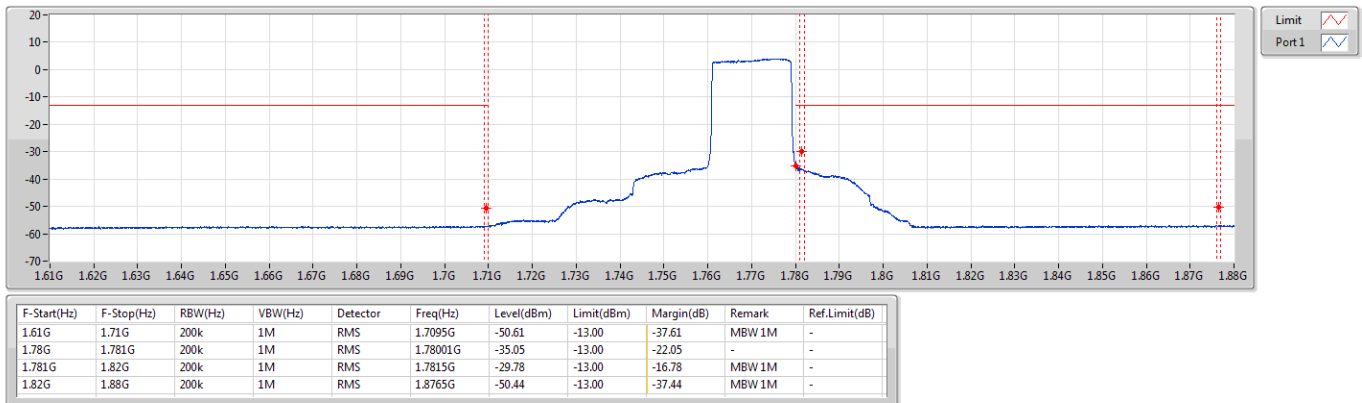
CSE-TX-Sum





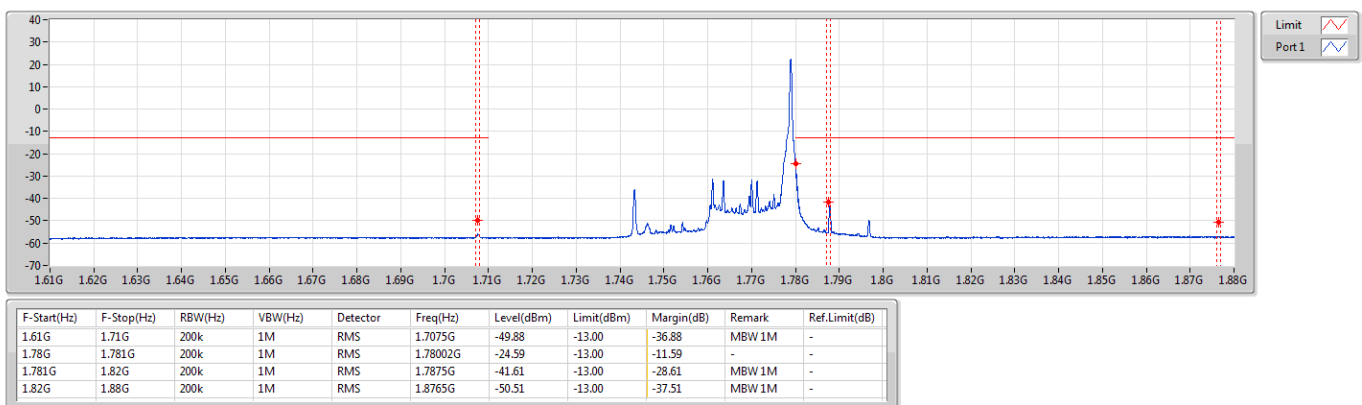
Band 66_LTE_20MHz_Nss1,QPSK_1TX
1770MHz_QPSK_RB 100,#RB 0

CSE-TX-Sum



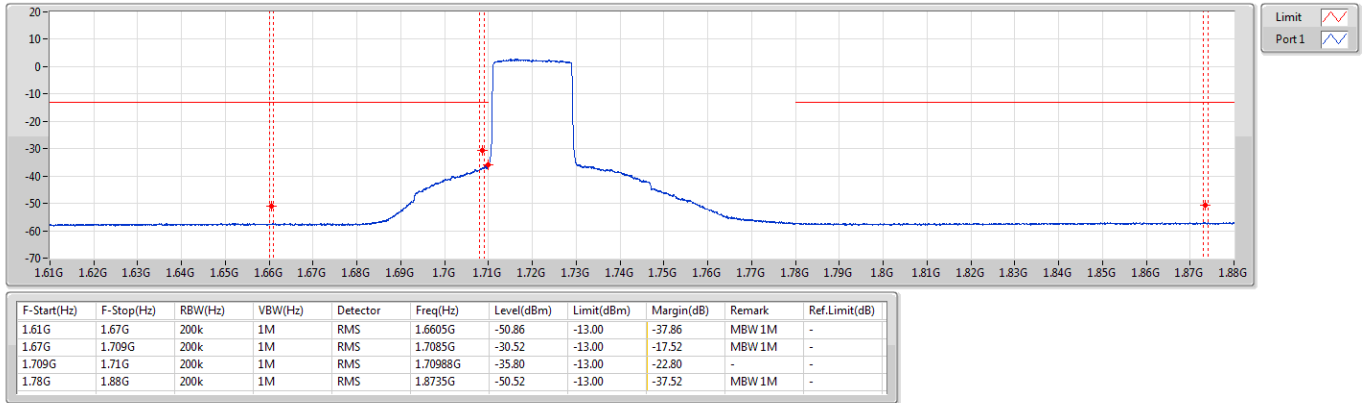
Band 66_LTE_20MHz_Nss1,QPSK_1TX
1770MHz_QPSK_RB 1,#RB R

CSE-TX-Sum



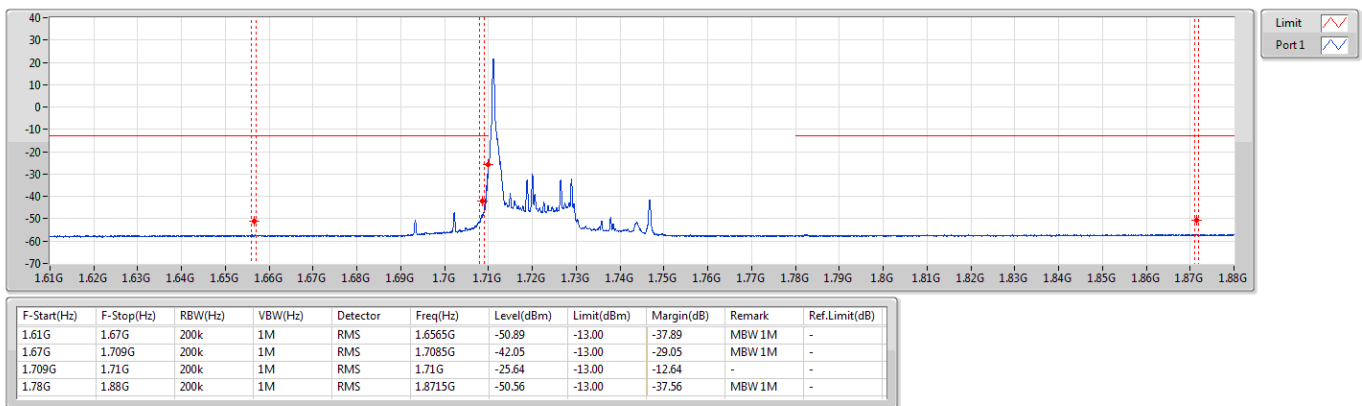
Band 66_LTE_20MHz_Nss1,16QAM_1TX
1720MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



Band 66_LTE_20MHz_Nss1,16QAM_1TX
1720MHz_16QAM_RB 1,#RB L

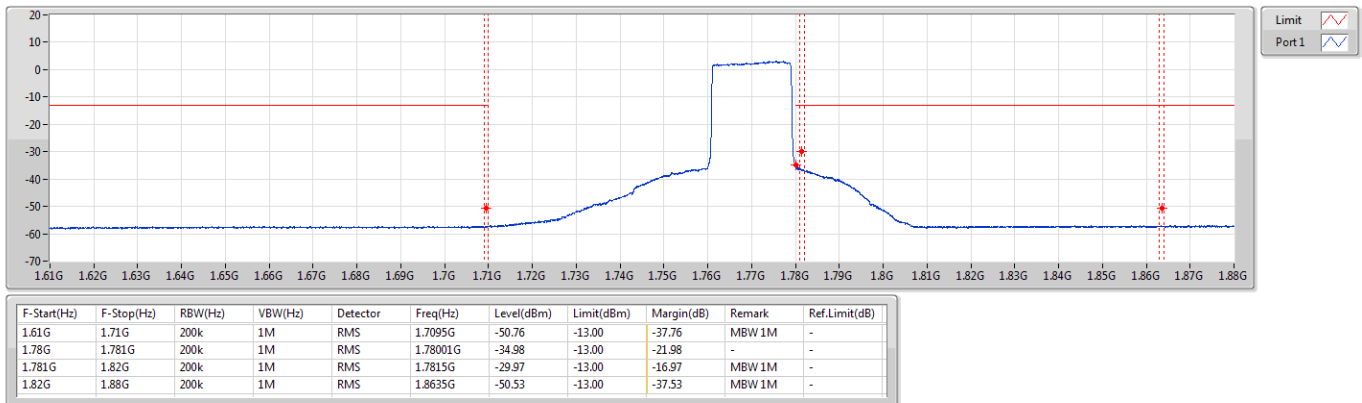
CSE-TX-Sum





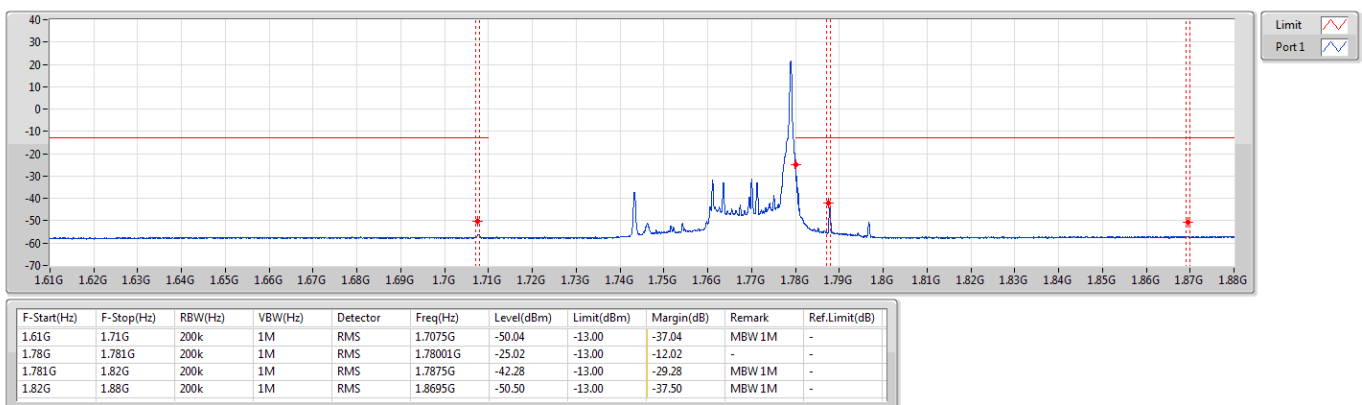
Band 66_LTE_20MHz_Nss1,16QAM_1TX
1770MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



Band 66_LTE_20MHz_Nss1,16QAM_1TX
1770MHz_16QAM_RB 1,#RB R

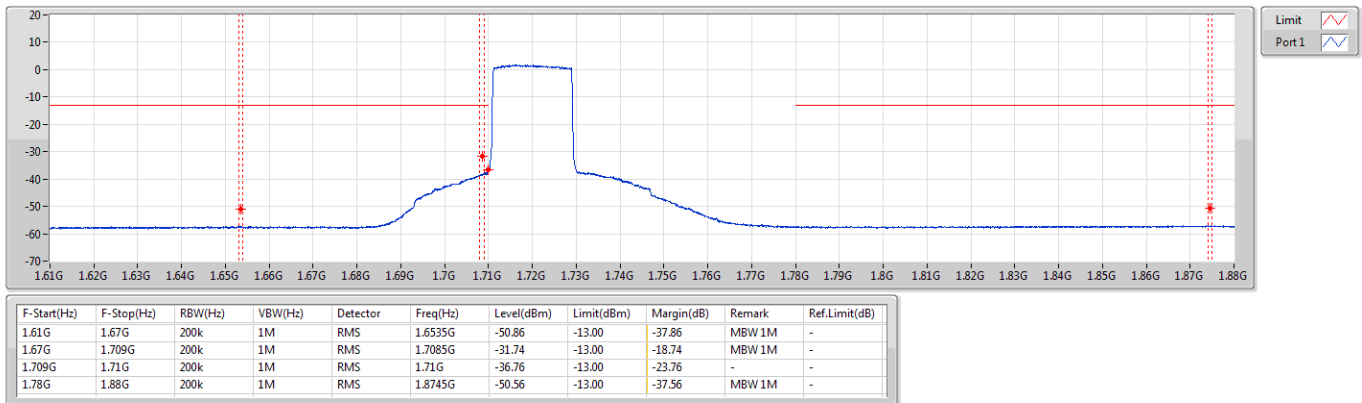
CSE-TX-Sum





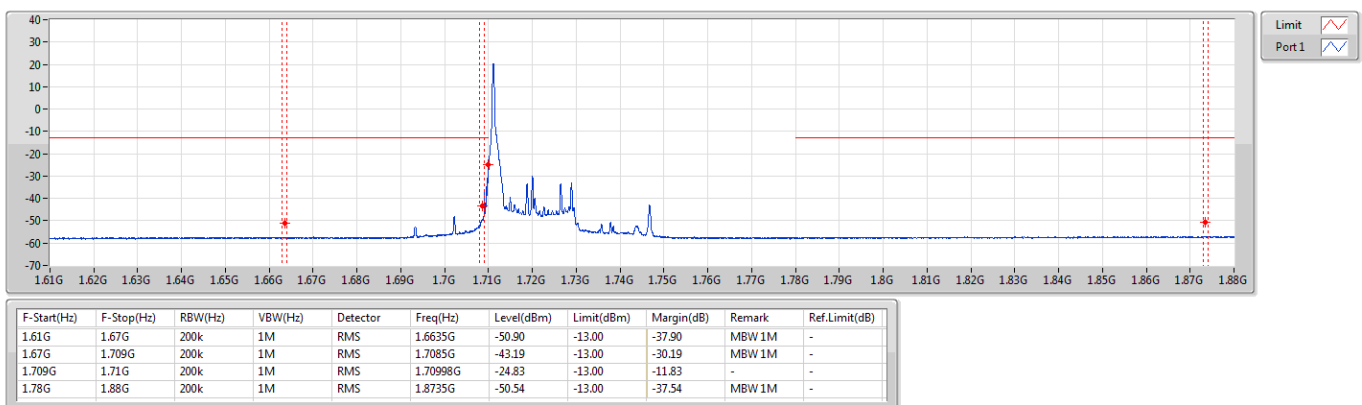
Band 66_LTE_20MHz_Nss1,64QAM_1TX
1720MHz_64QAM_RB 100,#RB 0

CSE-TX-Sum



Band 66_LTE_20MHz_Nss1,64QAM_1TX
1720MHz_64QAM_RB 1,#RB L

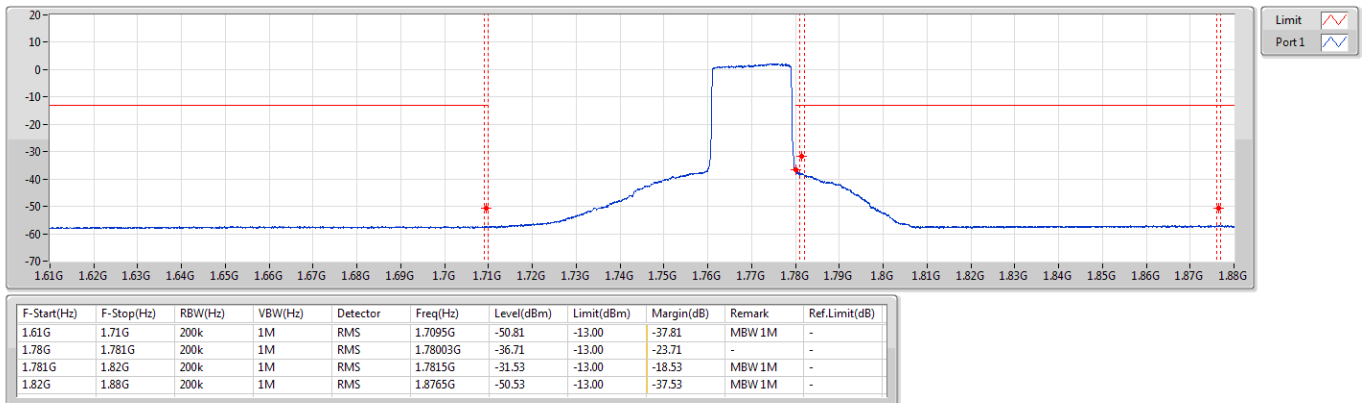
CSE-TX-Sum





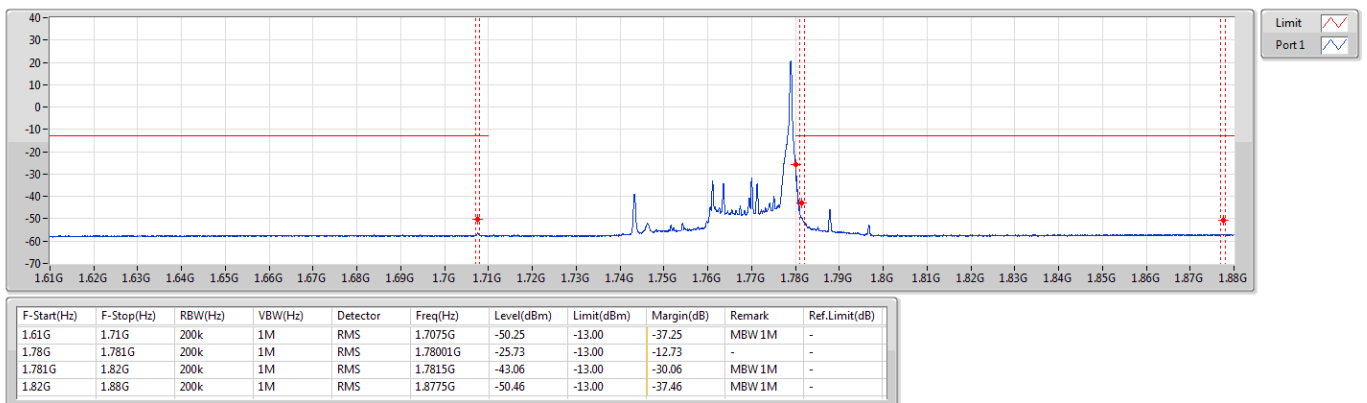
Band 66_LTE_20MHz_Nss1,64QAM_1TX
1770MHz_64QAM_RB 100,#RB 0

CSE-TX-Sum



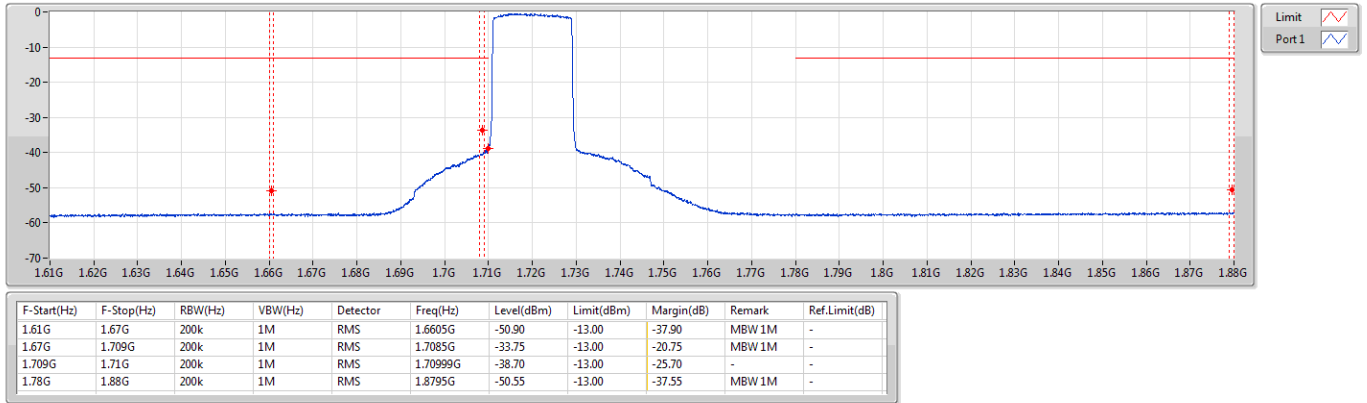
Band 66_LTE_20MHz_Nss1,64QAM_1TX
1770MHz_64QAM_RB 1,#RB R

CSE-TX-Sum



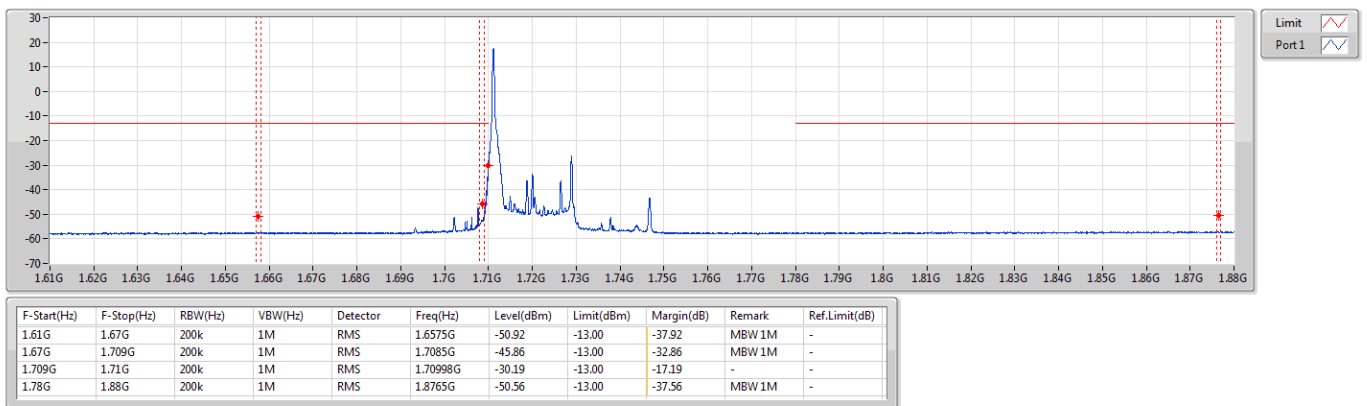
Band 66_LTE_20MHz_Nss1,256QAM_1TX
1720MHz_256QAM_RB 100,#RB 0

CSE-TX-Sum



Band 66_LTE_20MHz_Nss1,256QAM_1TX
1720MHz_256QAM_RB 1,#RB L

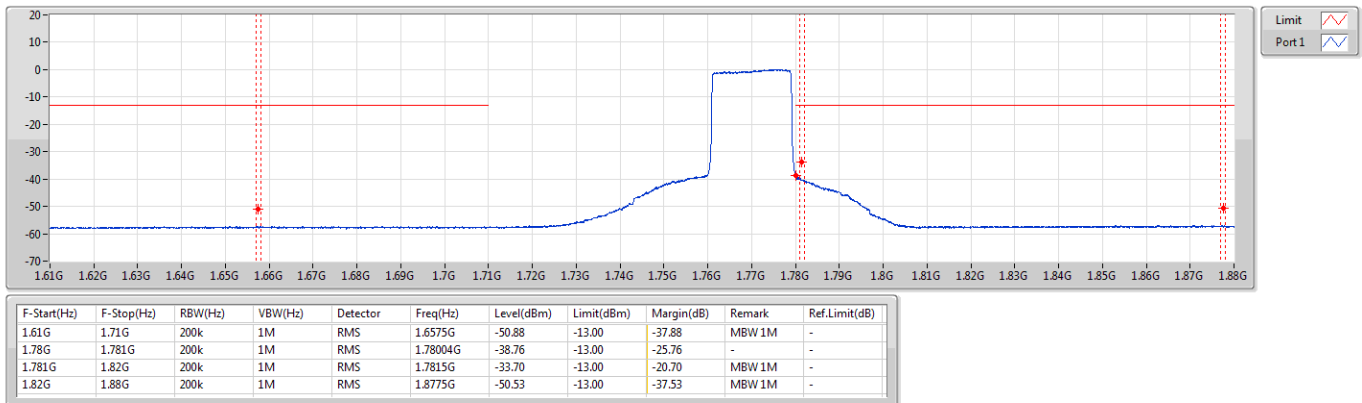
CSE-TX-Sum





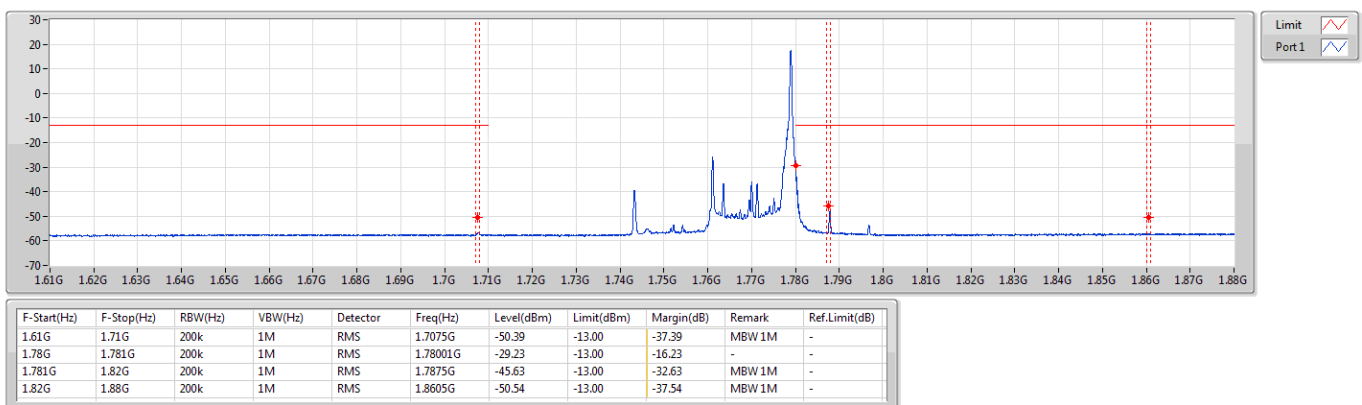
Band 66_LTE_20MHz_Nss1,256QAM_1TX
1770MHz_256QAM_RB 100,#RB 0

CSE-TX-Sum



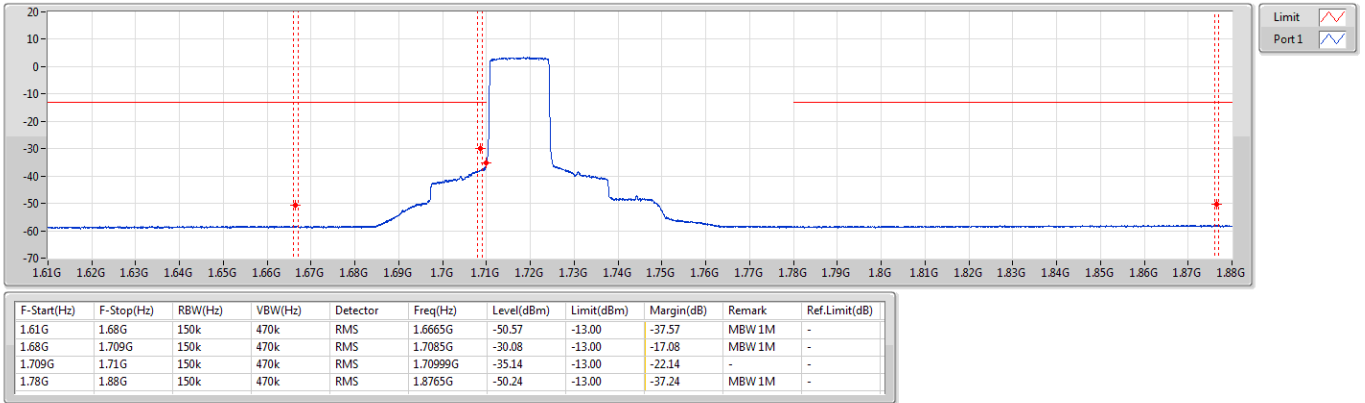
Band 66_LTE_20MHz_Nss1,256QAM_1TX
1770MHz_256QAM_RB 1,#RB R

CSE-TX-Sum



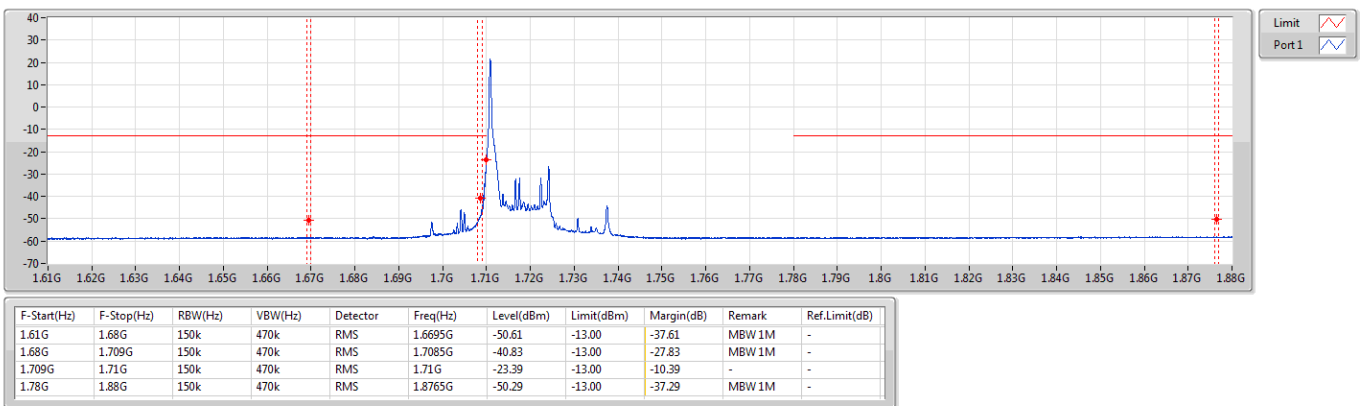
Band 66_LTE_15MHz_Nss1,QPSK_1TX
1717.5MHz_QPSK_RB 75,#RB 0

CSE-TX-Sum



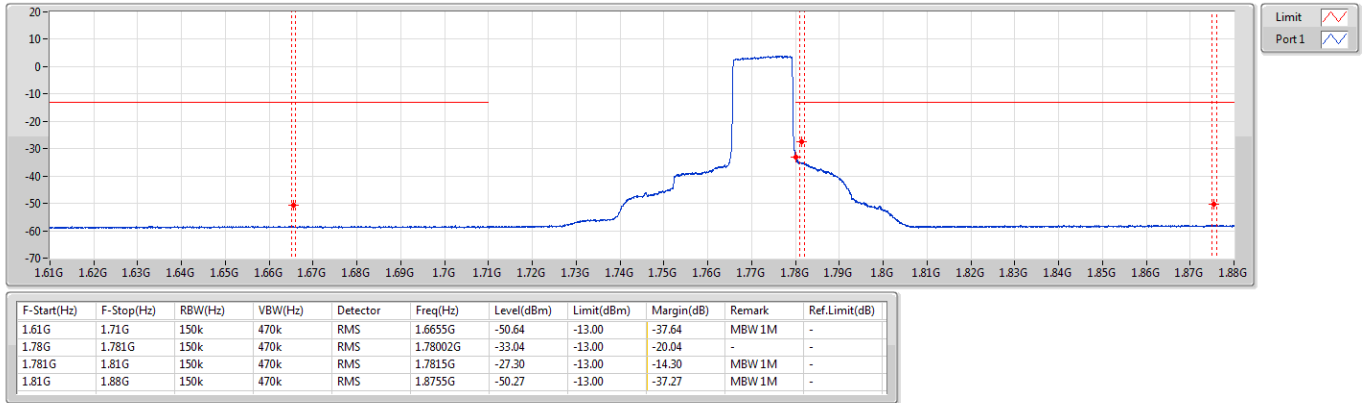
Band 66_LTE_15MHz_Nss1,QPSK_1TX
1717.5MHz_QPSK_RB 1,#RB L

CSE-TX-Sum



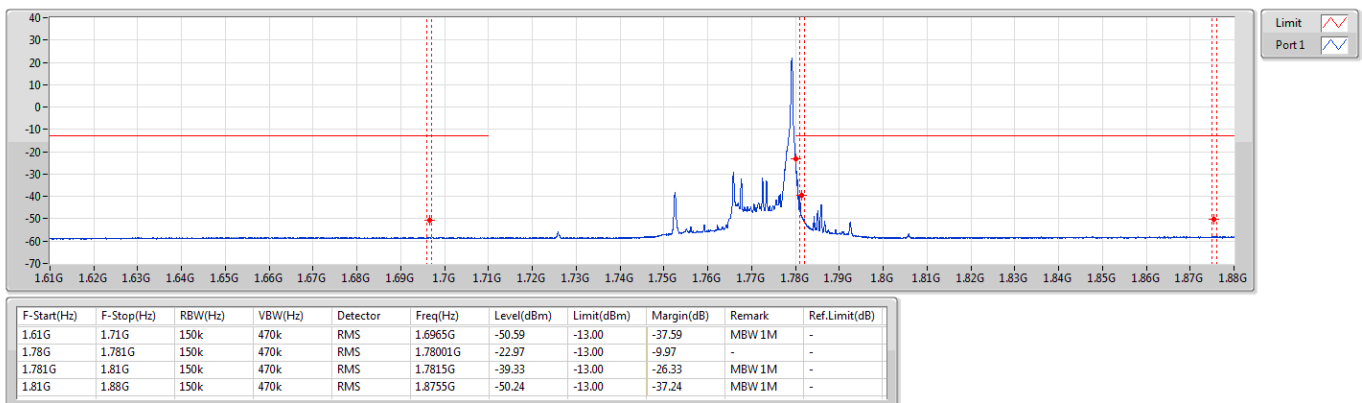
Band 66_LTE_15MHz_Nss1,QPSK_1TX
1772.5MHz_QPSK_RB 75,#RB 0

CSE-TX-Sum



Band 66_LTE_15MHz_Nss1,QPSK_1TX
1772.5MHz_QPSK_RB 1,#RB R

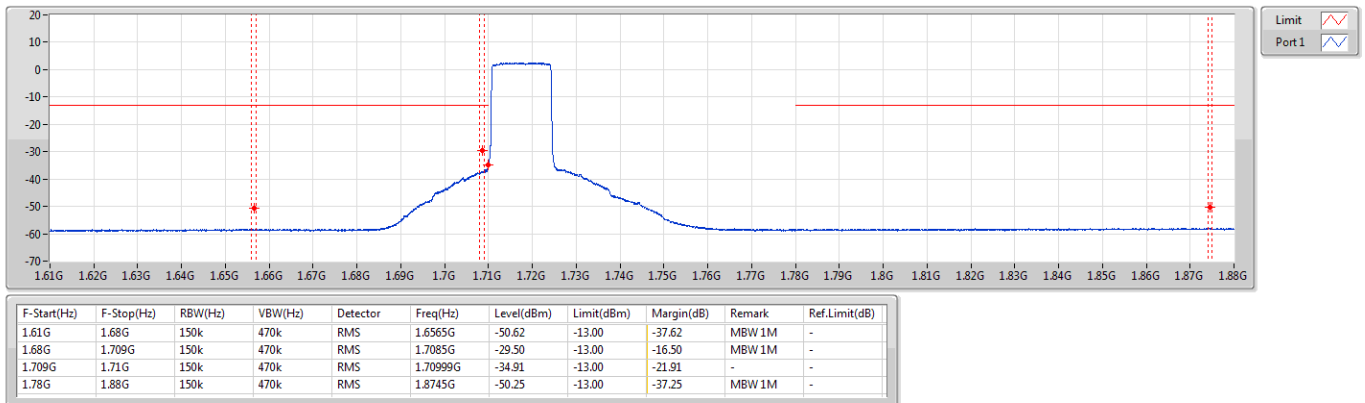
CSE-TX-Sum





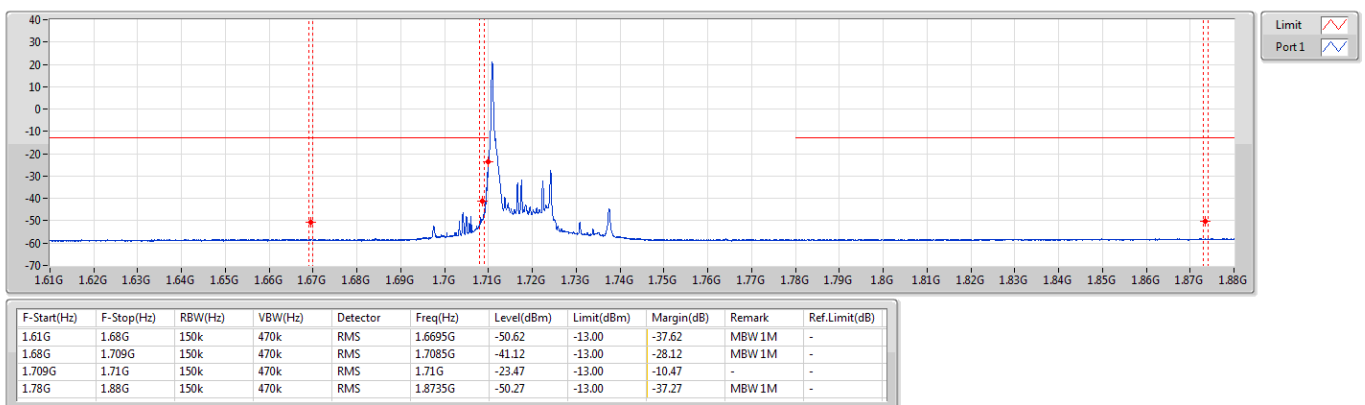
Band 66_LTE_15MHz_Nss1,16QAM_1TX
1717.5MHz_16QAM_RB 75,#RB 0

CSE-TX-Sum



Band 66_LTE_15MHz_Nss1,16QAM_1TX
1717.5MHz_16QAM_RB 1,#RB L

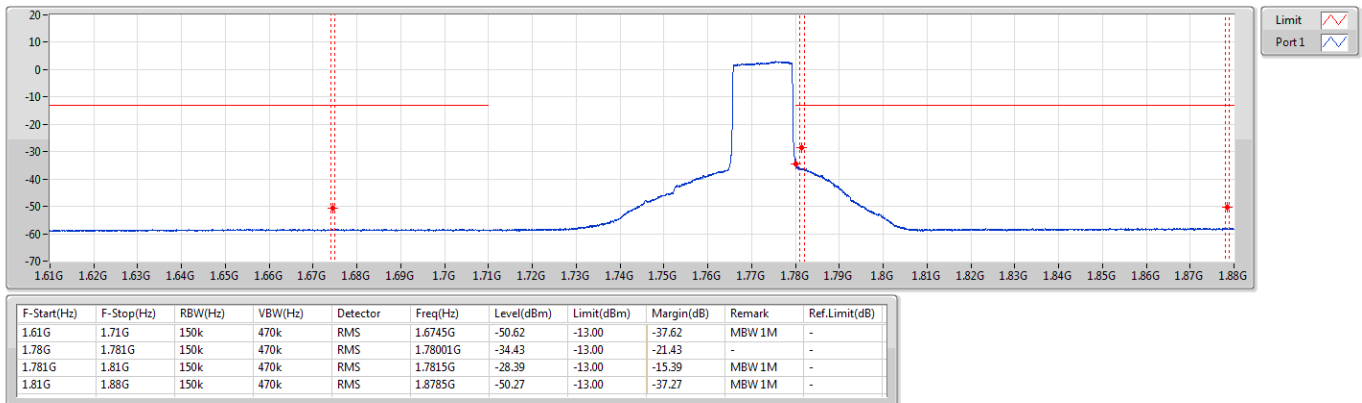
CSE-TX-Sum





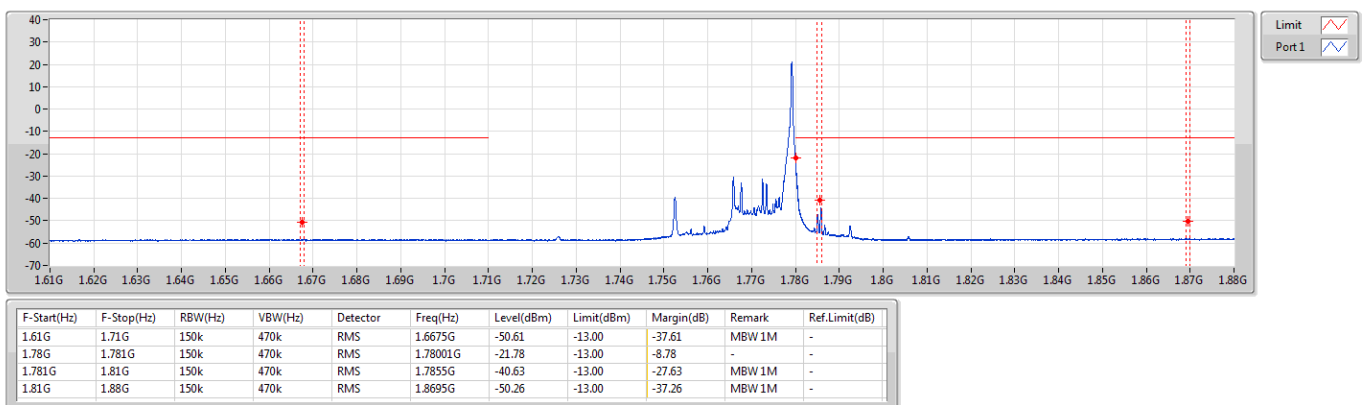
Band 66_LTE_15MHz_Nss1,16QAM_1TX
1772.5MHz_16QAM_RB 75,#RB 0

CSE-TX-Sum



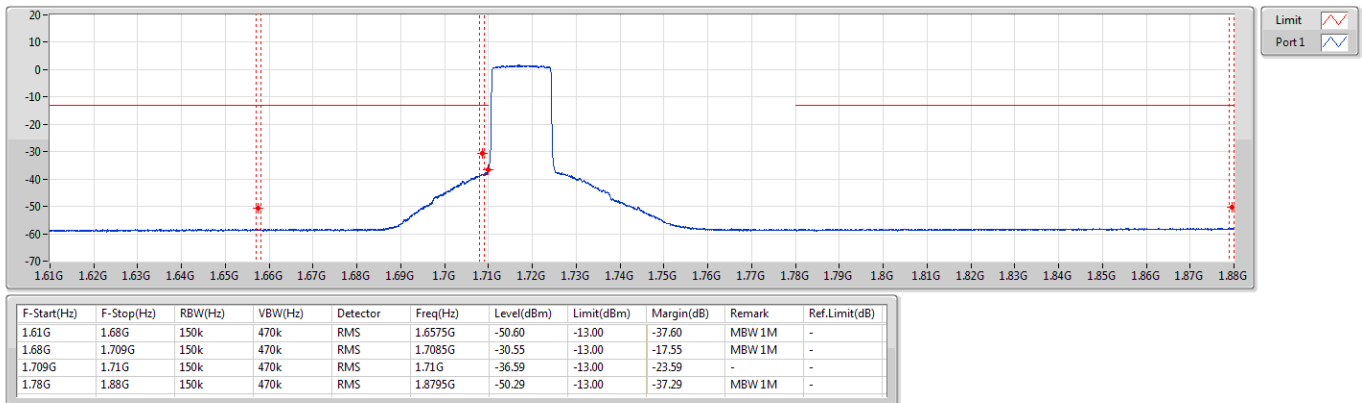
Band 66_LTE_15MHz_Nss1,16QAM_1TX
1772.5MHz_16QAM_RB 1,#RB R

CSE-TX-Sum



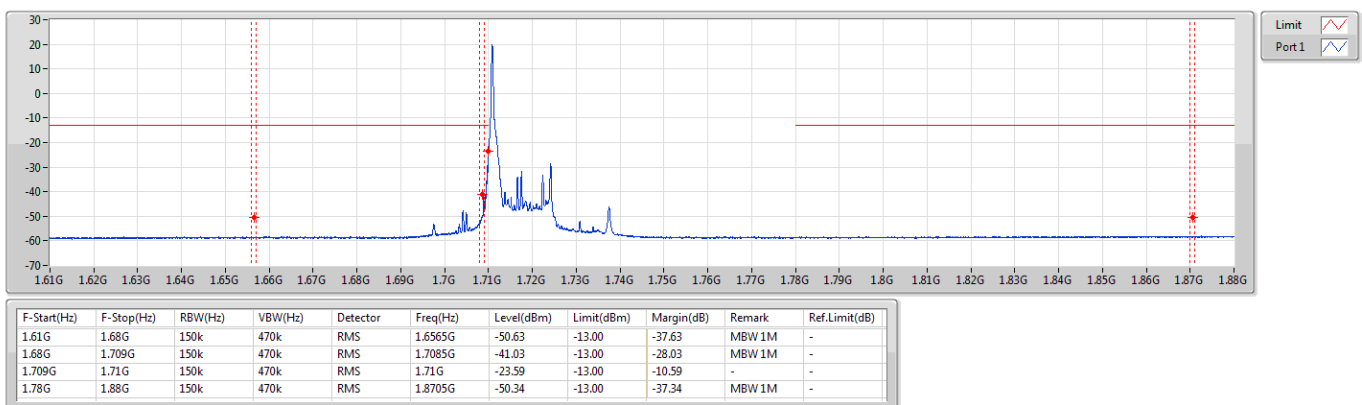
Band 66_LTE_15MHz_Nss1,64QAM_1TX
1717.5MHz_64QAM_RB 75,#RB 0

CSE-TX-Sum



Band 66_LTE_15MHz_Nss1,64QAM_1TX
1717.5MHz_64QAM_RB 1,#RB 1

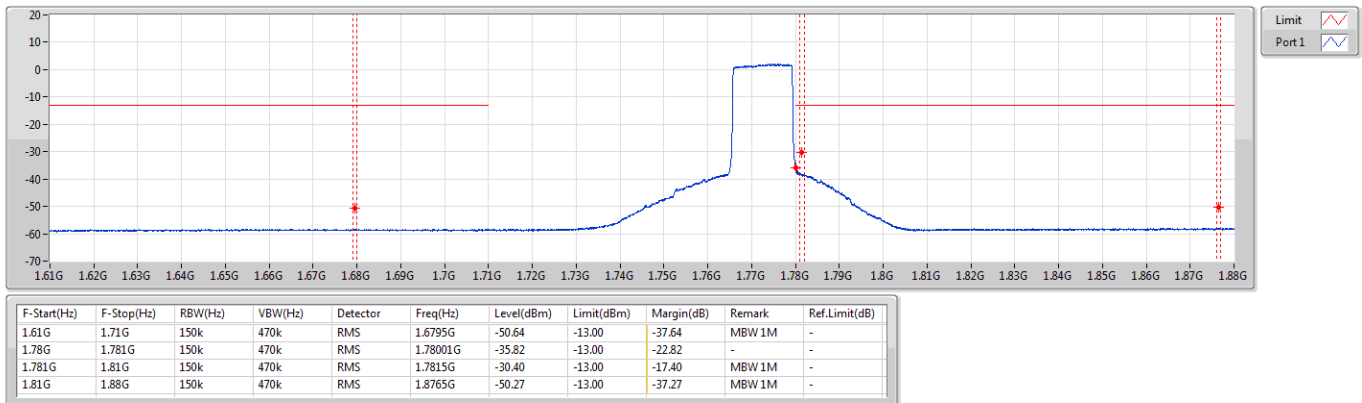
CSE-TX-Sum





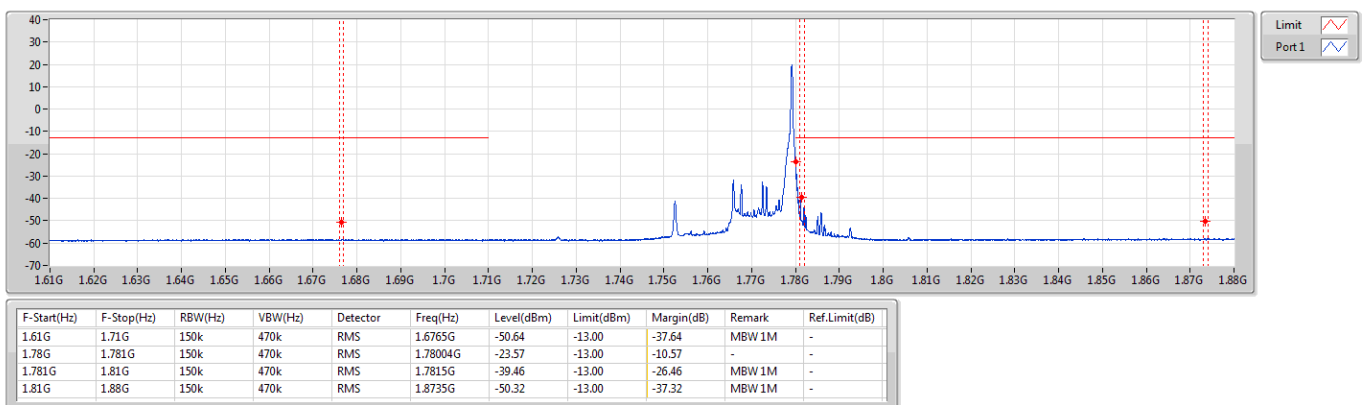
Band 66_LTE_15MHz_Nss1,64QAM_1TX
1772.5MHz_64QAM_RB 75,#RB 0

CSE-TX-Sum



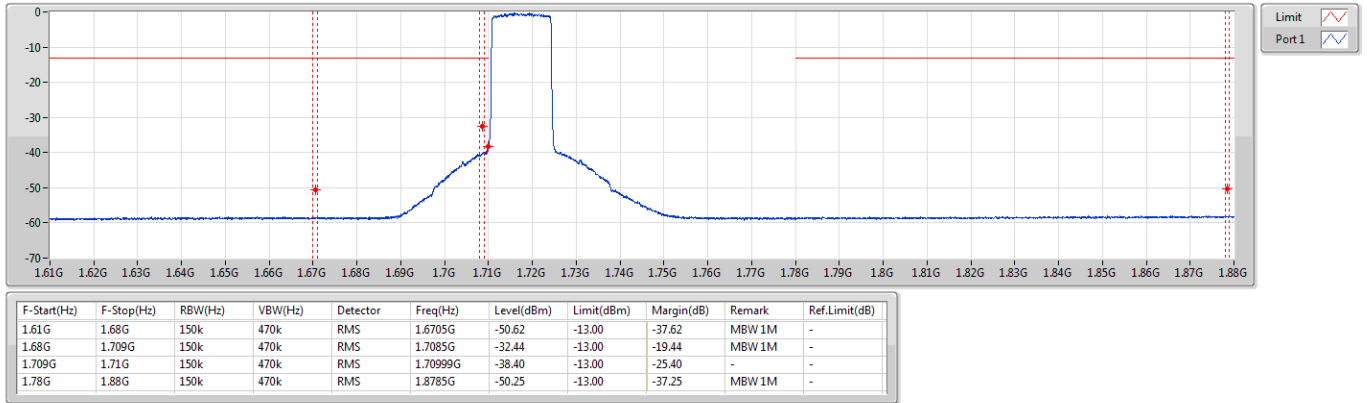
Band 66_LTE_15MHz_Nss1,64QAM_1TX
1772.5MHz_64QAM_RB 1,#RB R

CSE-TX-Sum



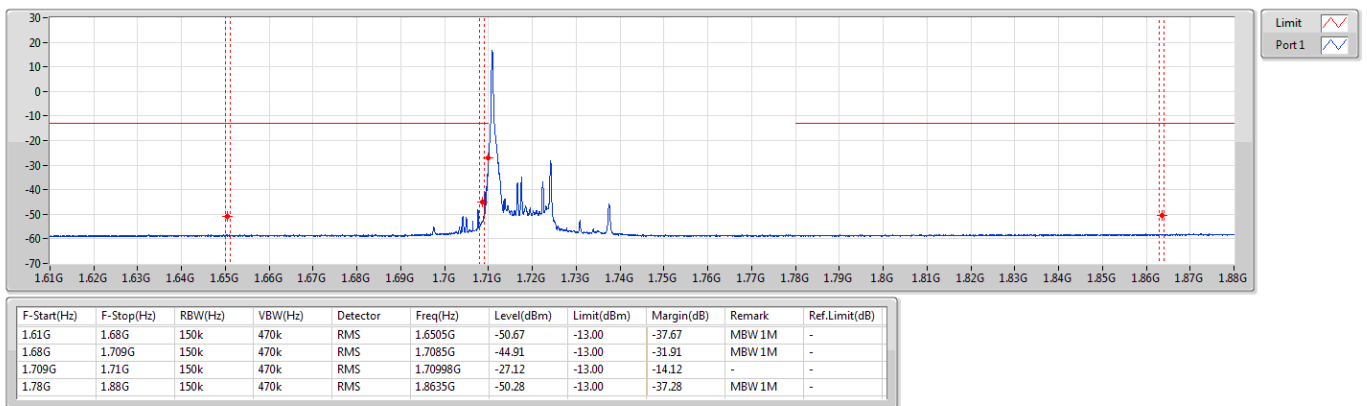
Band 66_LTE_15MHz_Nss1,256QAM_1TX
1717.5MHz_256QAM_RB 75,#RB 0

CSE-TX-Sum



Band 66_LTE_15MHz_Nss1,256QAM_1TX
1717.5MHz_256QAM_RB 1,#RB L

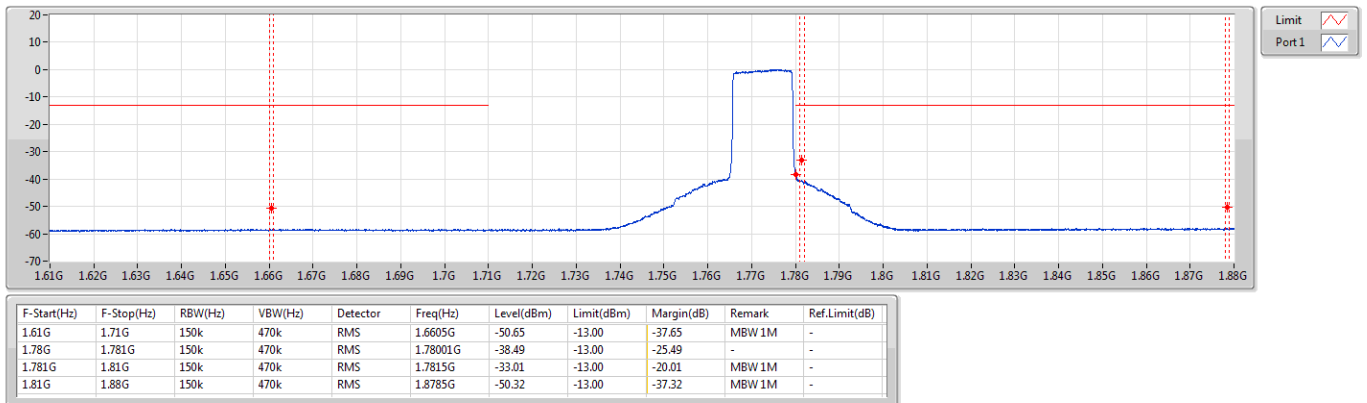
CSE-TX-Sum





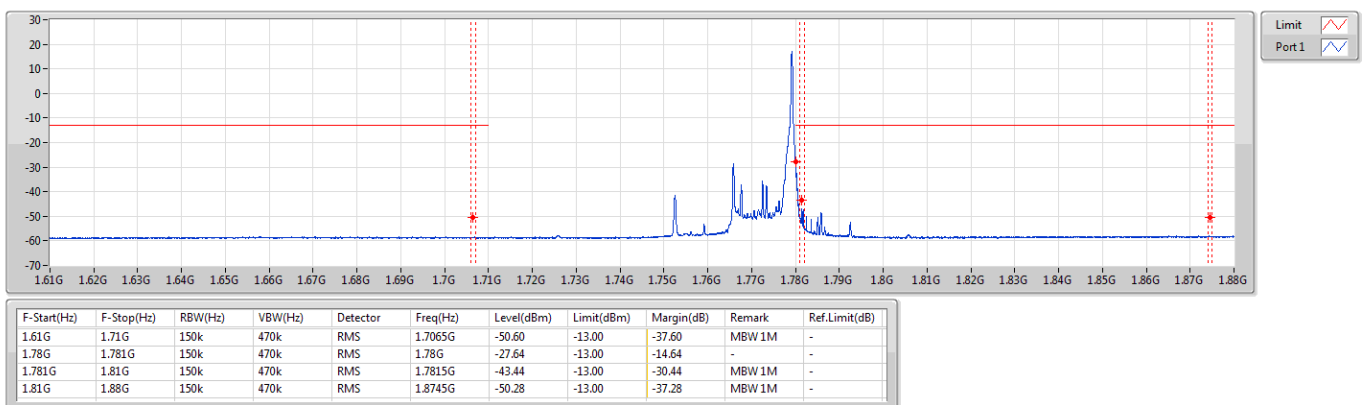
Band 66_LTE_15MHz_Nss1,256QAM_1TX
1772.5MHz_256QAM_RB 75,#RB 0

CSE-TX-Sum



Band 66_LTE_15MHz_Nss1,256QAM_1TX
1772.5MHz_256QAM_RB 1,#RB R

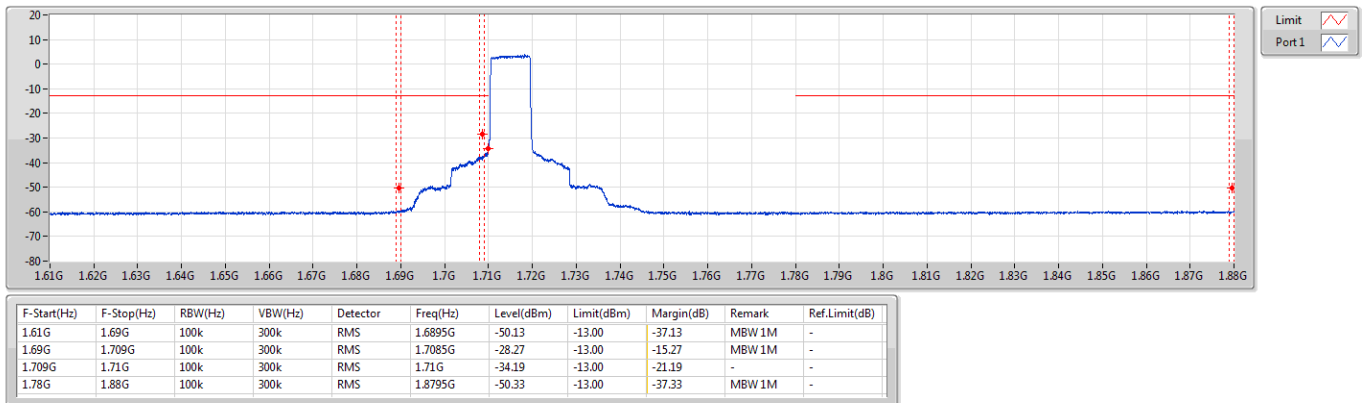
CSE-TX-Sum





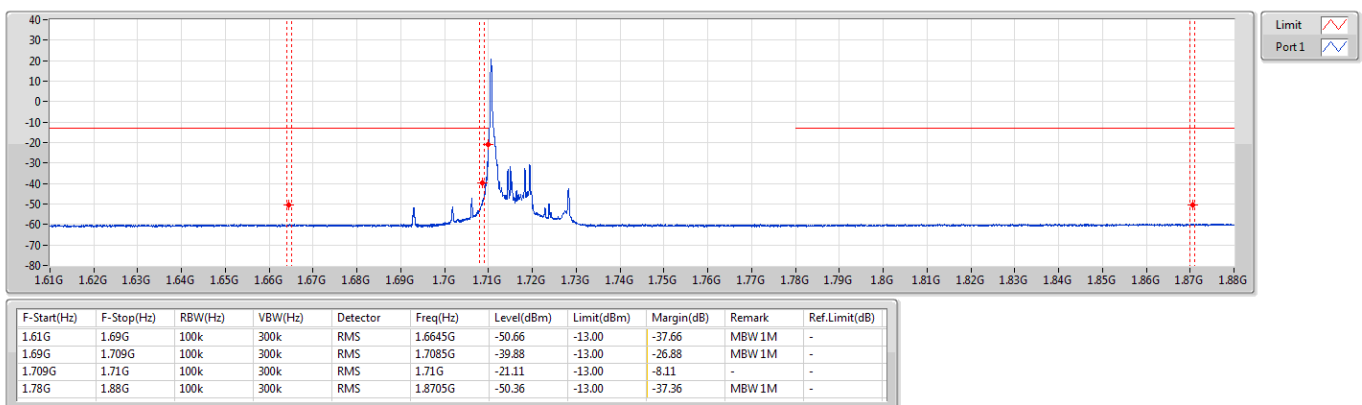
Band 66_LTE_10MHz_Nss1,QPSK_1TX
1715MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



Band 66_LTE_10MHz_Nss1,QPSK_1TX
1715MHz_QPSK_RB 1,#RB L

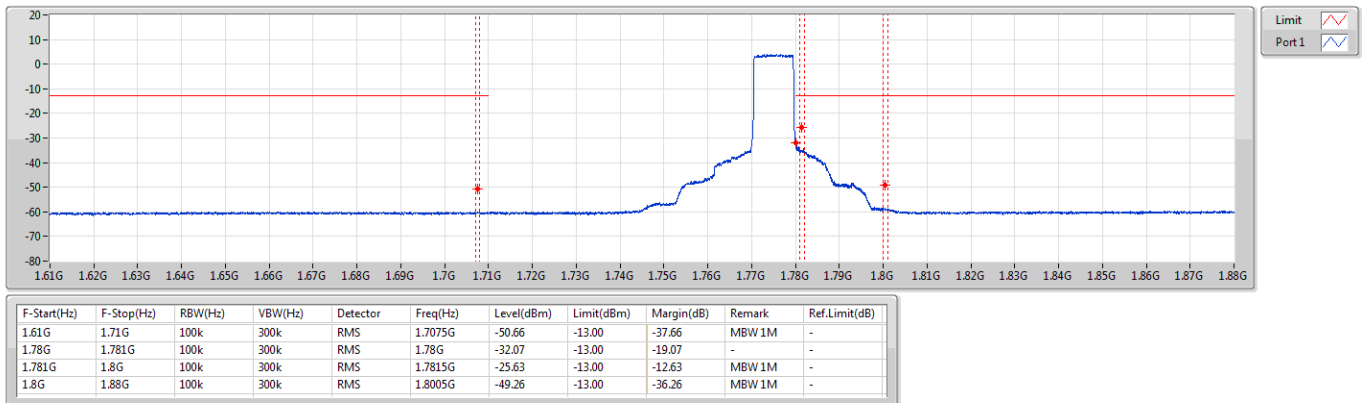
CSE-TX-Sum





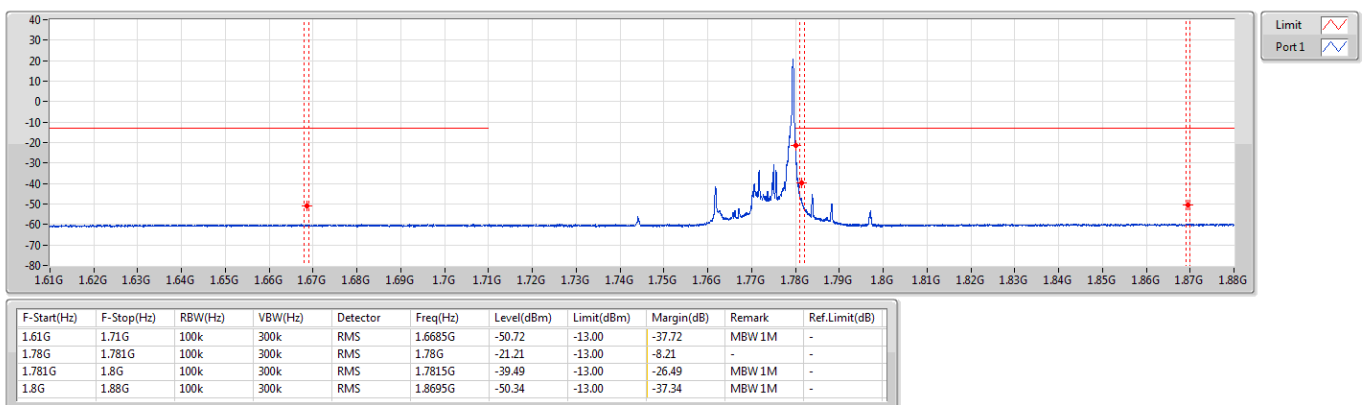
Band 66_LTE_10MHz_Nss1,QPSK_1TX
1775MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



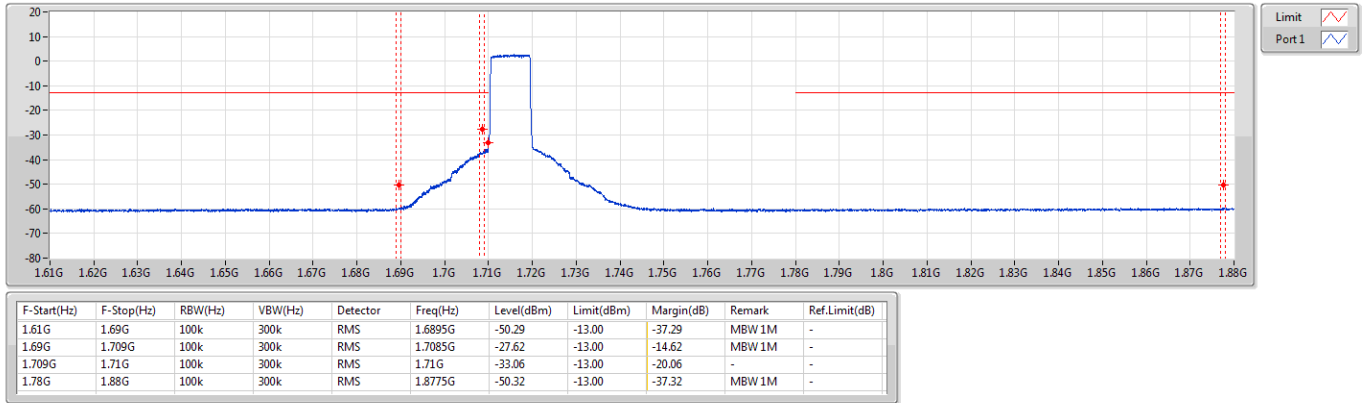
Band 66_LTE_10MHz_Nss1,QPSK_1TX
1775MHz_QPSK_RB 1,#RB R

CSE-TX-Sum



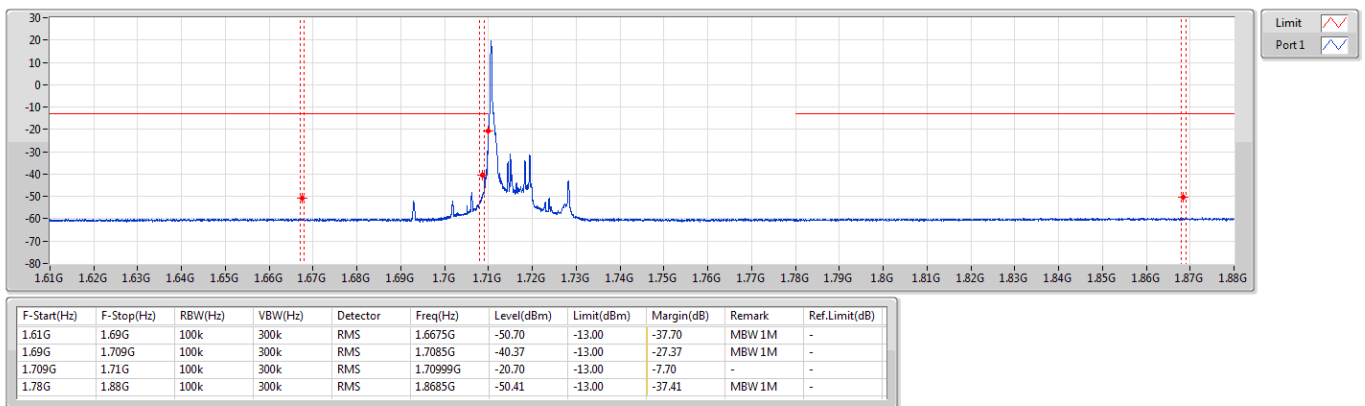
Band 66_LTE_10MHz_Nss1,16QAM_1TX
1715MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



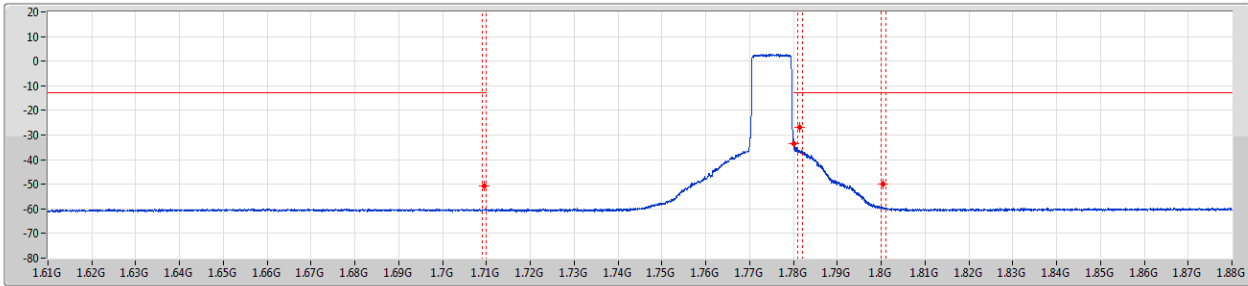
Band 66_LTE_10MHz_Nss1,16QAM_1TX
1715MHz_16QAM_RB 1,#RB L

CSE-TX-Sum



Band 66_LTE_10MHz_Nss1,16QAM_1TX
1775MHz_16QAM_RB 50,#RB 0

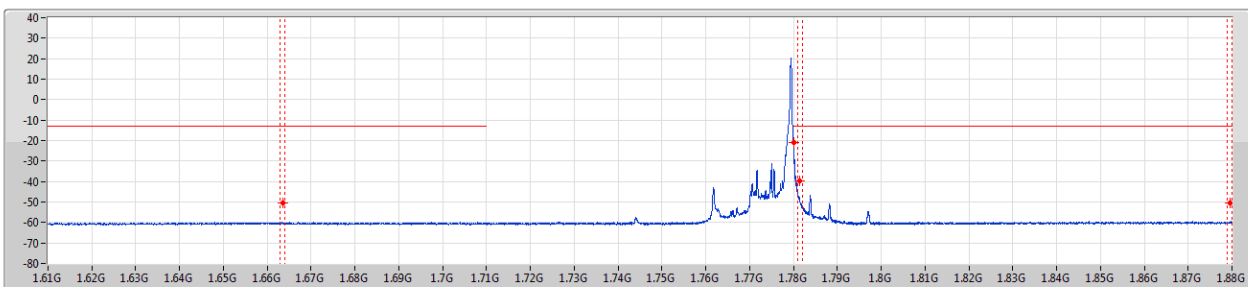
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
1.61G	1.71G	100k	300k	RMS	1.7095G	-50.69	-13.00	-37.69	MBW 1M	-
1.78G	1.781G	100k	300k	RMS	1.78001G	-33.44	-13.00	-20.44	-	-
1.781G	1.8G	100k	300k	RMS	1.7815G	-26.95	-13.00	-13.95	MBW 1M	-
1.8G	1.88G	100k	300k	RMS	1.8005G	-49.97	-13.00	-36.97	MBW 1M	-

Band 66_LTE_10MHz_Nss1,16QAM_1TX
1775MHz_16QAM_RB 1,#RB R

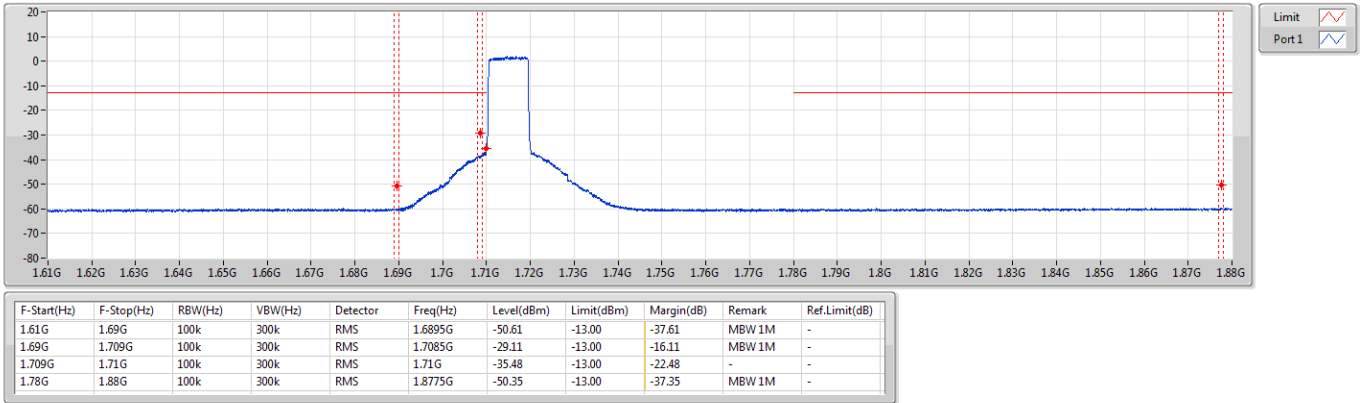
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
1.61G	1.71G	100k	300k	RMS	1.6635G	-50.68	-13.00	-37.68	MBW 1M	-
1.78G	1.781G	100k	300k	RMS	1.78001G	-21.08	-13.00	-8.08	-	-
1.781G	1.8G	100k	300k	RMS	1.7815G	-39.87	-13.00	-26.87	MBW 1M	-
1.8G	1.88G	100k	300k	RMS	1.8795G	-50.37	-13.00	-37.37	MBW 1M	-

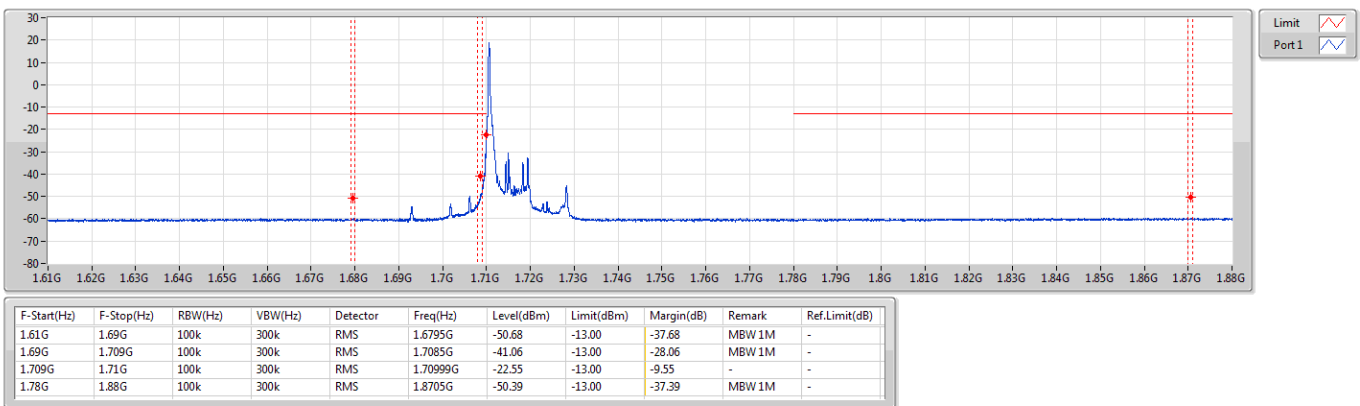
Band 66_LTE_10MHz_Nss1,64QAM_1TX
1715MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



Band 66_LTE_10MHz_Nss1,64QAM_1TX
1715MHz_64QAM_RB 1,#RB L

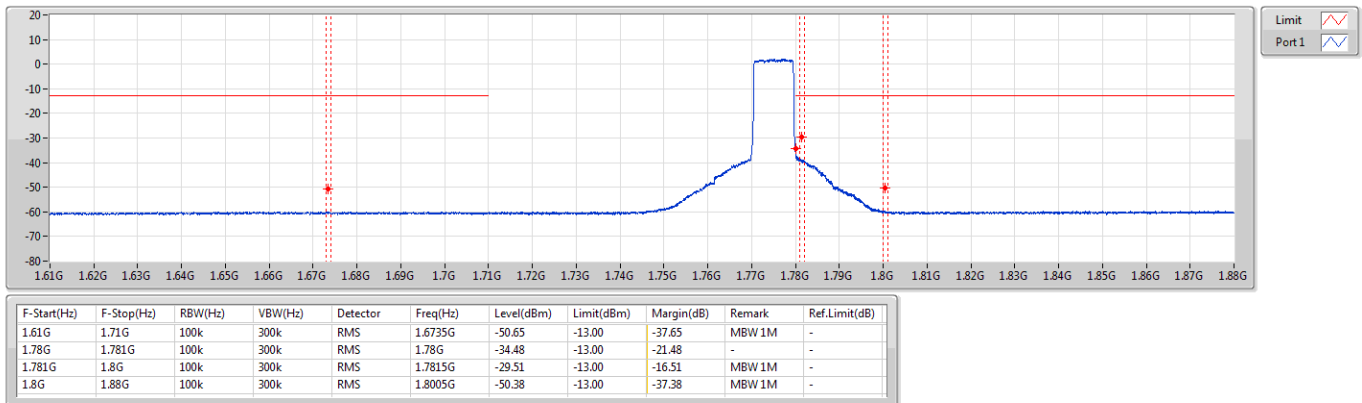
CSE-TX-Sum





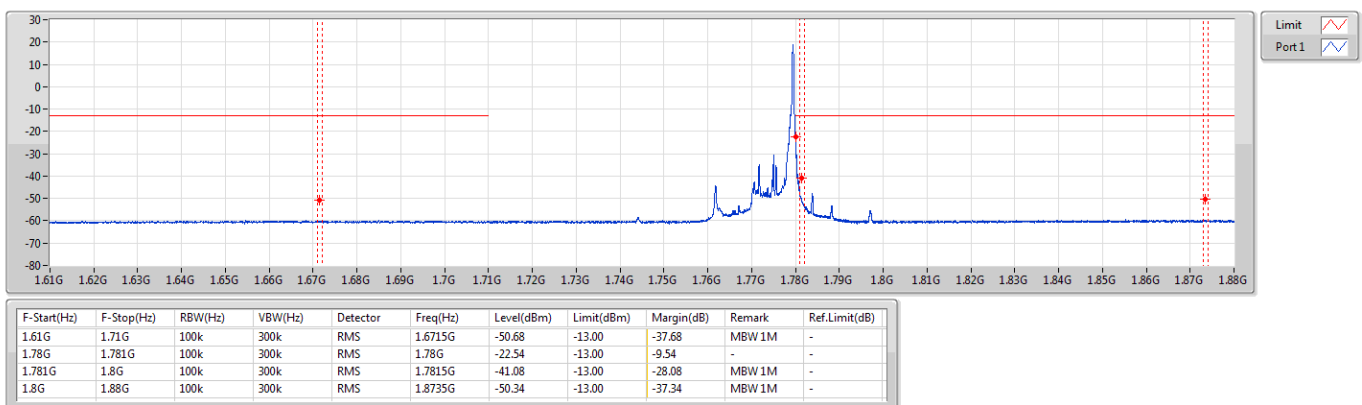
Band 66_LTE_10MHz_Nss1,64QAM_1TX
1775MHz_64QAM_RB 50,#RB 0

CSE-TX-Sum



Band 66_LTE_10MHz_Nss1,64QAM_1TX
1775MHz_64QAM_RB 1,#RB R

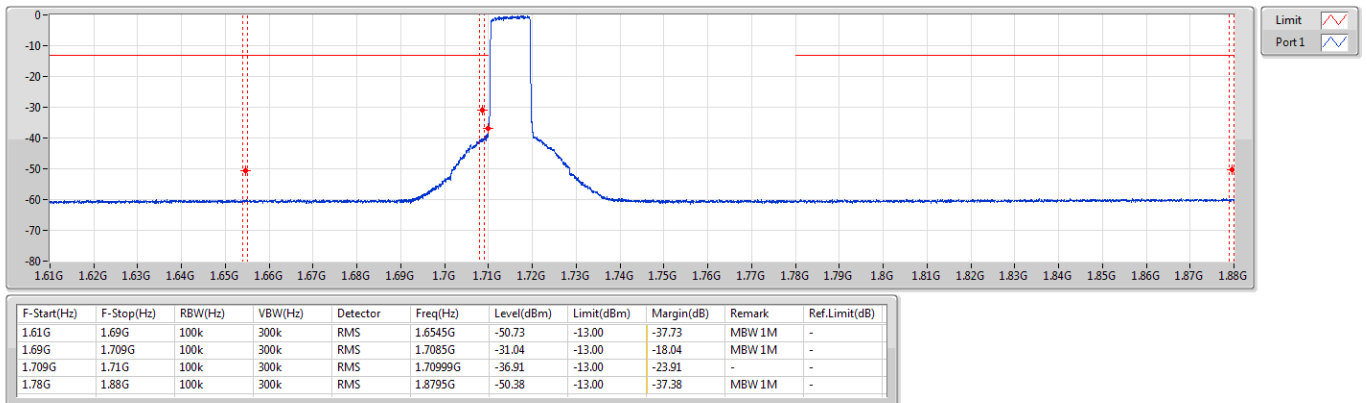
CSE-TX-Sum





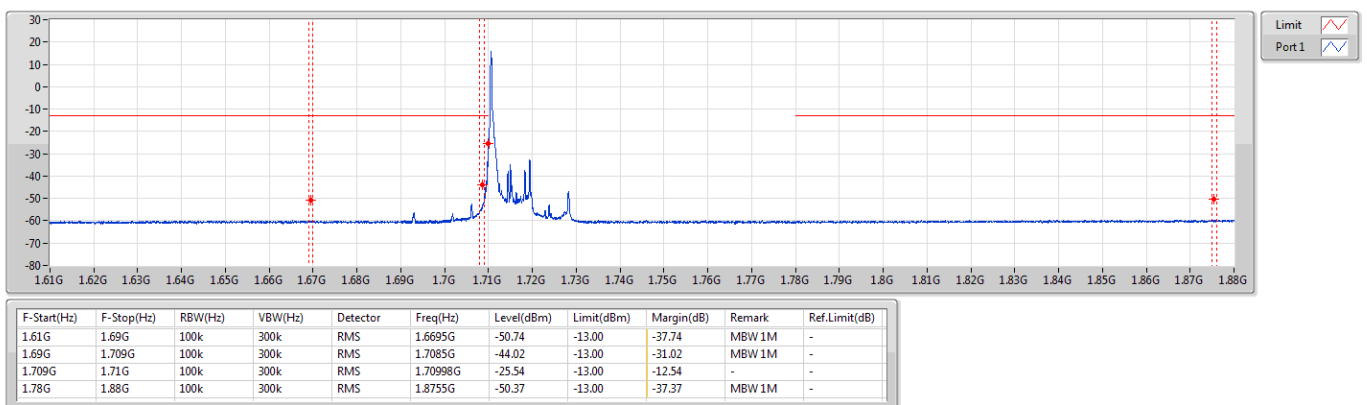
Band 66_LTE_10MHz_Nss1,256QAM_1TX
1715MHz_256QAM_RB 50,#RB 0

CSE-TX-Sum



Band 66_LTE_10MHz_Nss1,256QAM_1TX
1715MHz_256QAM_RB 1,#RB L

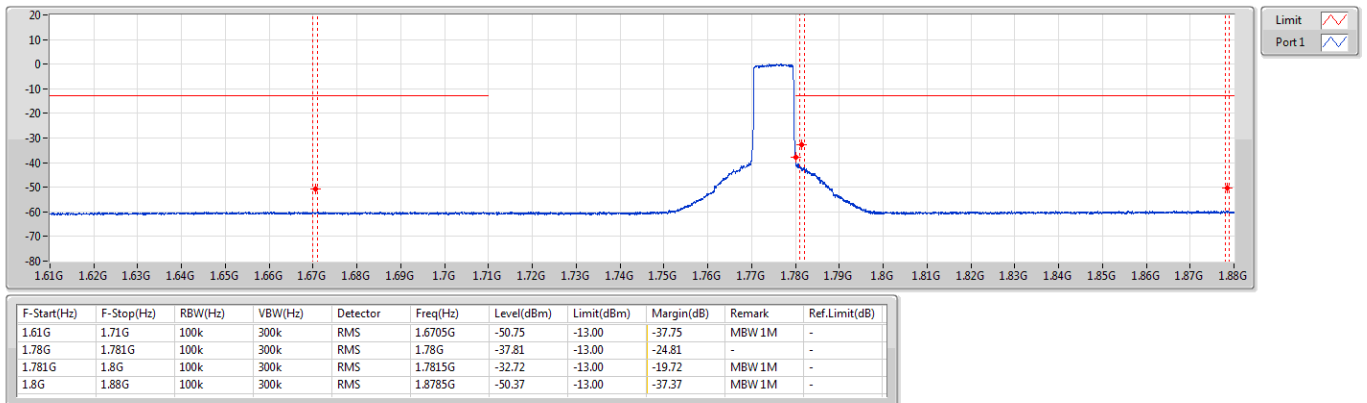
CSE-TX-Sum





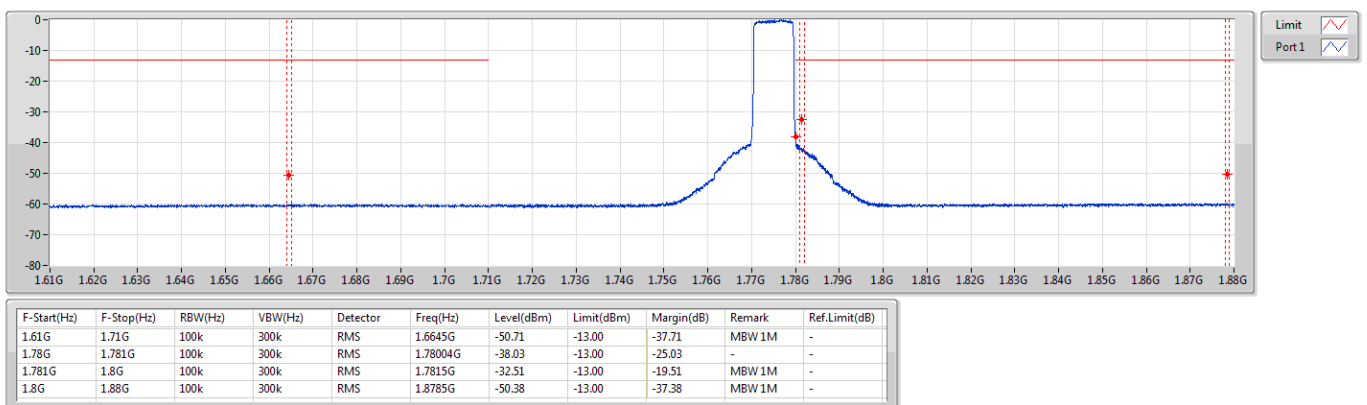
Band 66_LTE_10MHz_Nss1,256QAM_1TX
1775MHz_256QAM_RB 50,#RB 0

CSE-TX-Sum



Band 66_LTE_10MHz_Nss1,256QAM_1TX
1775MHz_256QAM_RB 1,#RB R

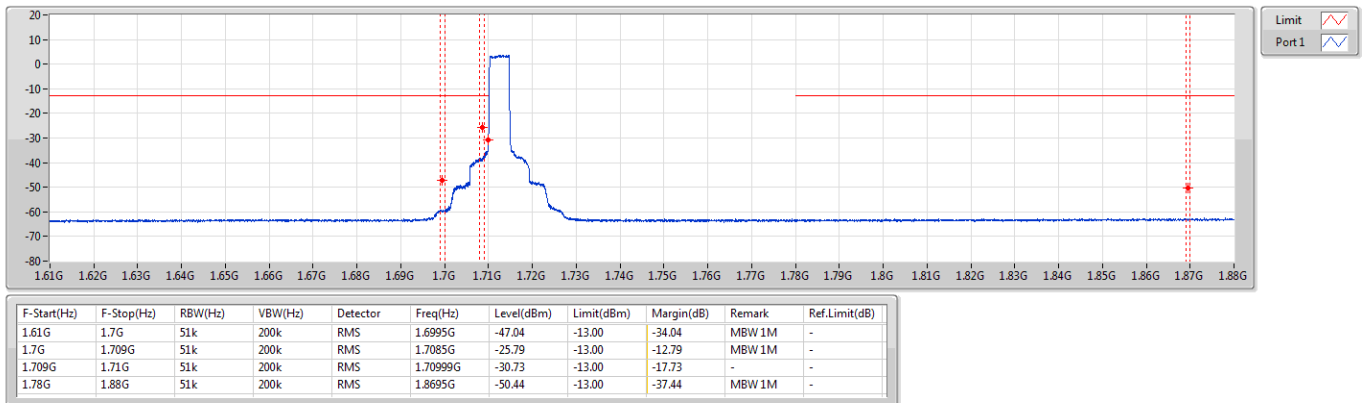
CSE-TX-Sum





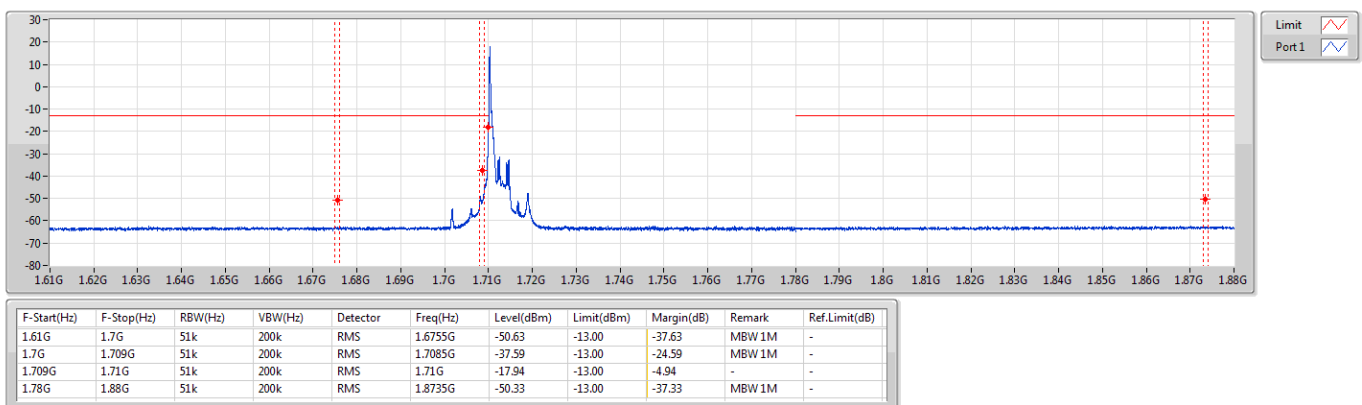
Band 66_LTE_5MHz_Nss1,QPSK_1TX
1712.5MHz_QPSK_RB 25,#RB 0

CSE-TX-Sum



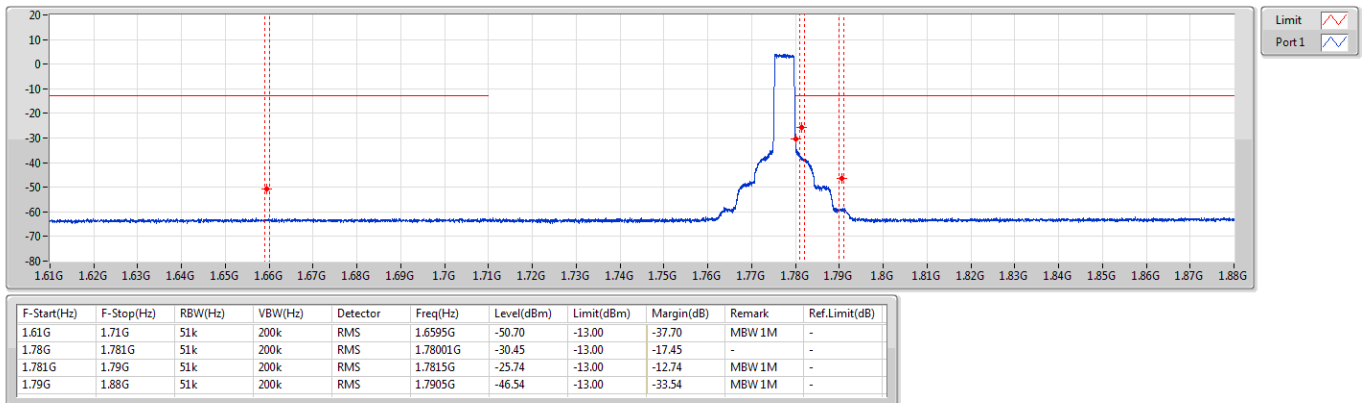
Band 66_LTE_5MHz_Nss1,QPSK_1TX
1712.5MHz_QPSK_RB 1,#RB L

CSE-TX-Sum



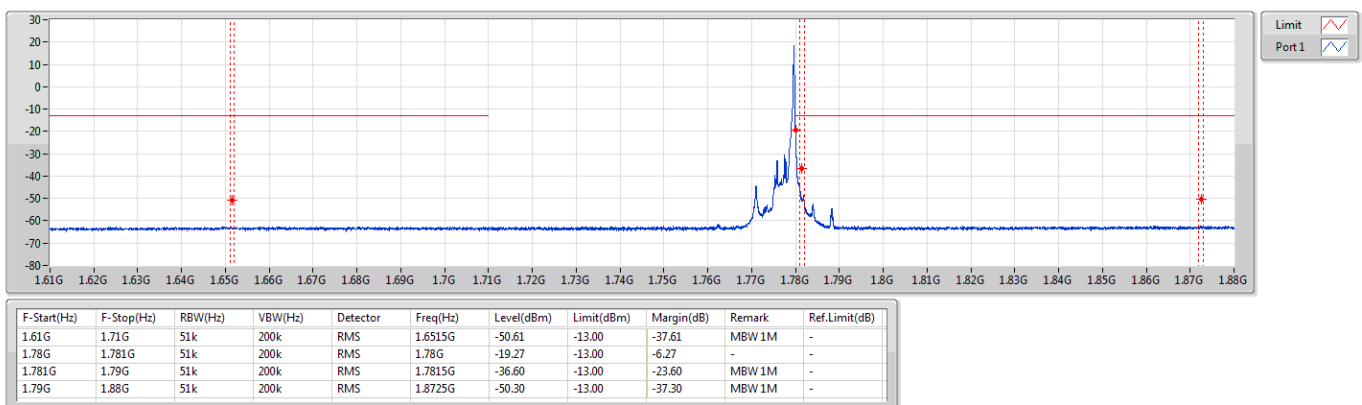
Band 66_LTE_5MHz_Nss1,QPSK_1TX
1777.5MHz_QPSK_RB 25,#RB 0

CSE-TX-Sum



Band 66_LTE_5MHz_Nss1,QPSK_1TX
1777.5MHz_QPSK_RB 1,#RB R

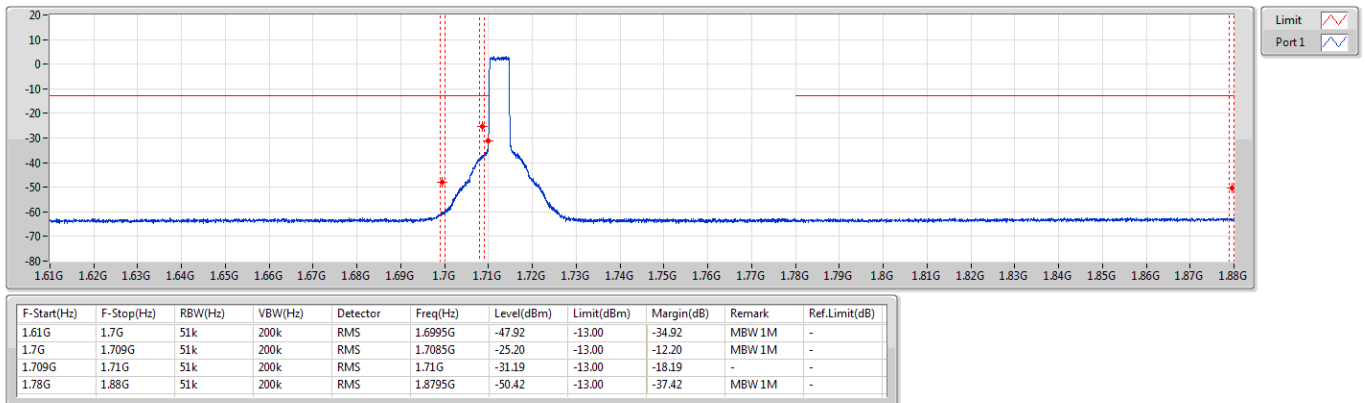
CSE-TX-Sum





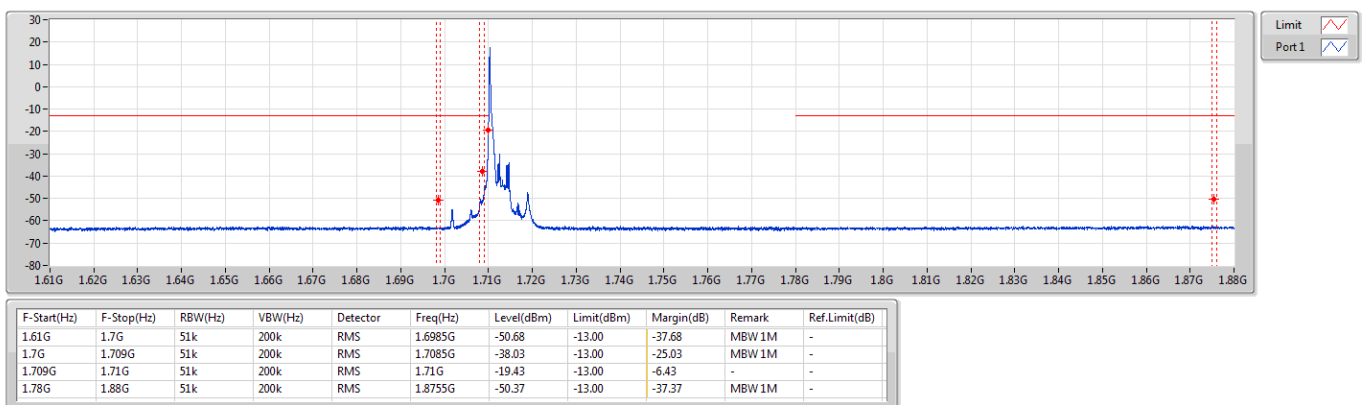
Band 66_LTE_5MHz_Nss1,16QAM_1TX
1712.5MHz_16QAM_RB 25,#RB 0

CSE-TX-Sum



Band 66_LTE_5MHz_Nss1,16QAM_1TX
1712.5MHz_16QAM_RB 1,#RB L

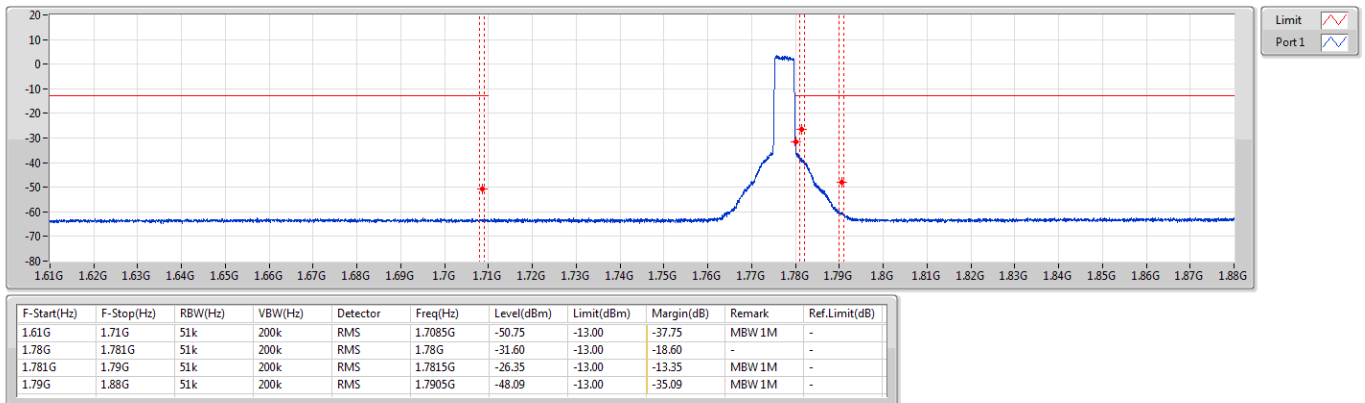
CSE-TX-Sum





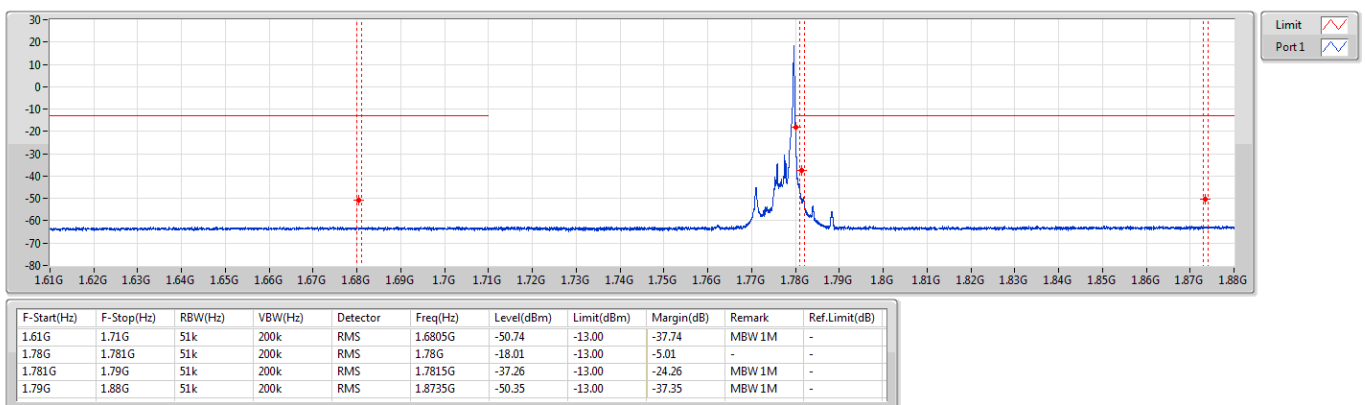
Band 66_LTE_5MHz_Nss1,16QAM_1TX
1777.5MHz_16QAM_RB 25,#RB 0

CSE-TX-Sum



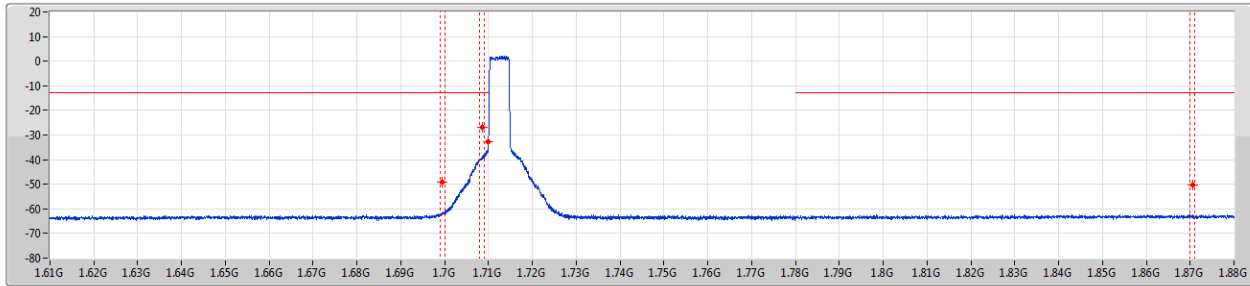
Band 66_LTE_5MHz_Nss1,16QAM_1TX
1777.5MHz_16QAM_RB 1,#RB R

CSE-TX-Sum



Band 66_LTE_5MHz_Nss1,64QAM_1TX
1712.5MHz_64QAM_RB 25,#RB 0

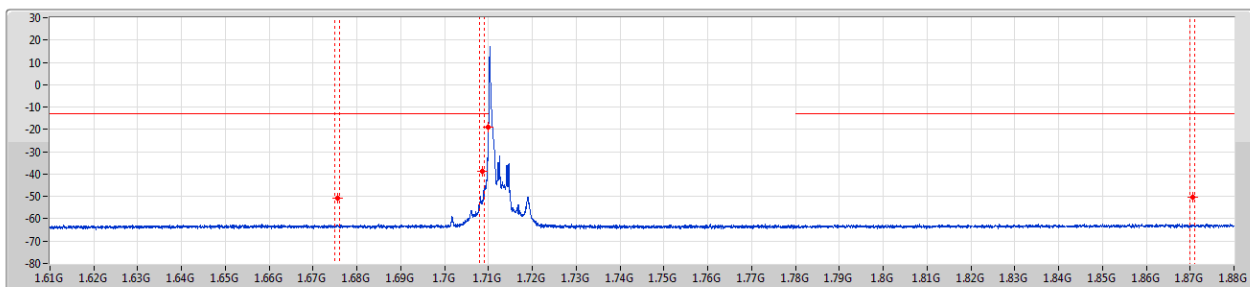
CSE-TX-Sum



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
1.61G	1.7G	51k	200k	RMS	1.6995G	-49.27	-13.00	-36.27	MBW 1M	-
1.7G	1.709G	51k	200k	RMS	1.7085G	-26.71	-13.00	-13.71	MBW 1M	-
1.709G	1.71G	51k	200k	RMS	1.70999G	-32.57	-13.00	-19.57	-	-
1.78G	1.88G	51k	200k	RMS	1.8705G	-50.43	-13.00	-37.43	MBW 1M	-

Band 66_LTE_5MHz_Nss1,64QAM_1TX
1712.5MHz_64QAM_RB 1,#RB L

CSE-TX-Sum

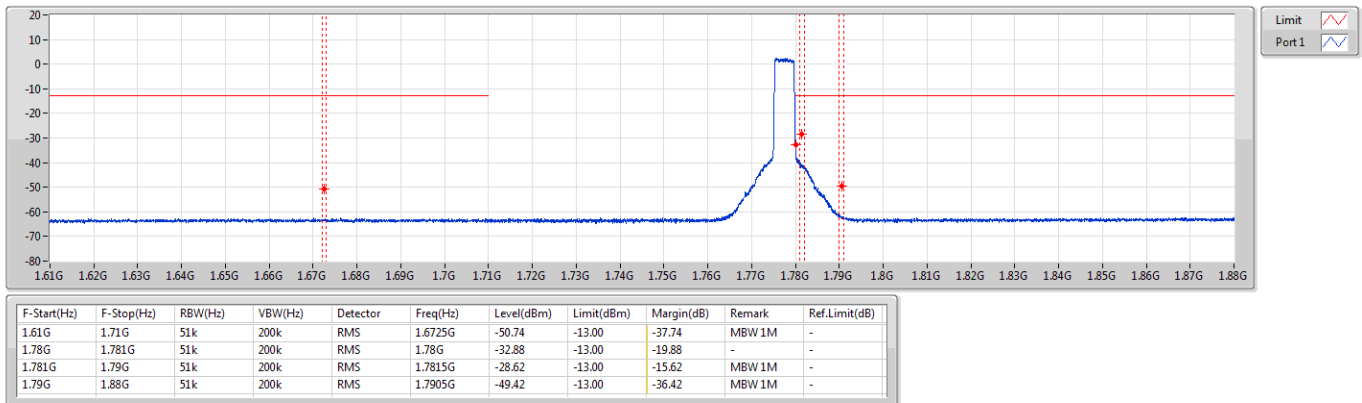


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Remark	Ref.Limit(dB)
1.61G	1.7G	51k	200k	RMS	1.6755G	-50.65	-13.00	-37.65	MBW 1M	-
1.7G	1.709G	51k	200k	RMS	1.7085G	-38.61	-13.00	-25.61	MBW 1M	-
1.709G	1.71G	51k	200k	RMS	1.71G	-18.91	-13.00	-5.91	-	-
1.78G	1.88G	51k	200k	RMS	1.8705G	-50.41	-13.00	-37.41	MBW 1M	-



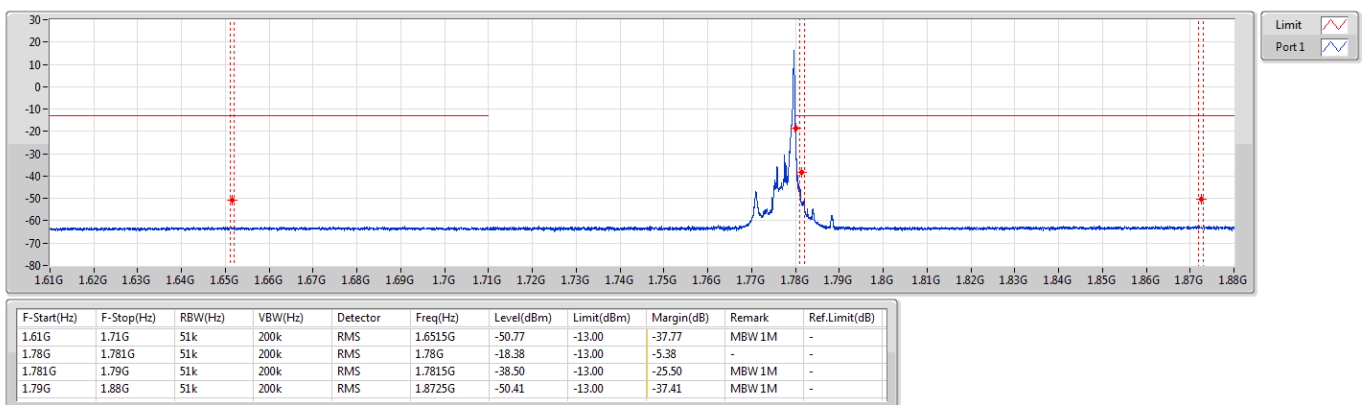
Band 66_LTE_5MHz_Nss1,64QAM_1TX
1777.5MHz_64QAM_RB 25,#RB 0

CSE-TX-Sum



Band 66_LTE_5MHz_Nss1,64QAM_1TX
1777.5MHz_64QAM_RB 1,#RB R

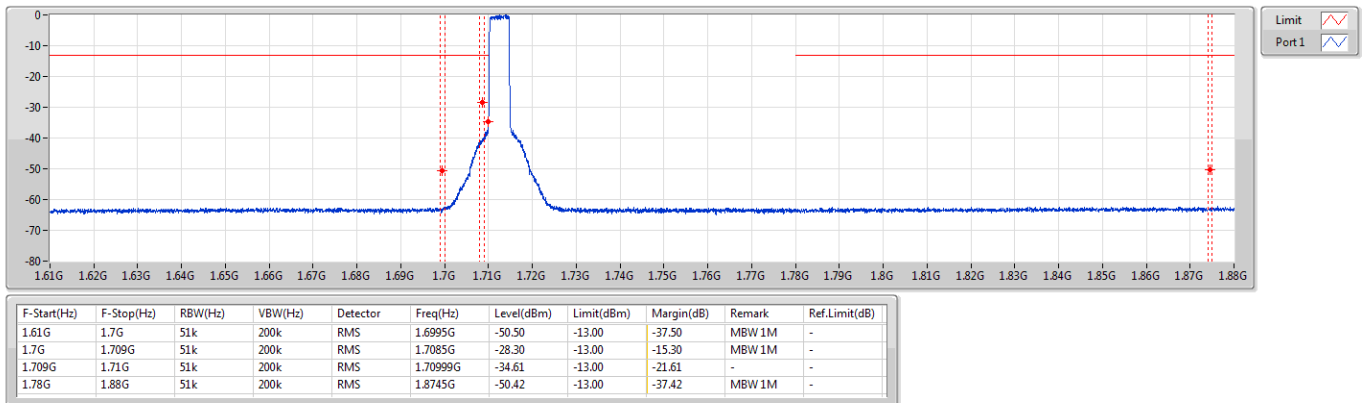
CSE-TX-Sum





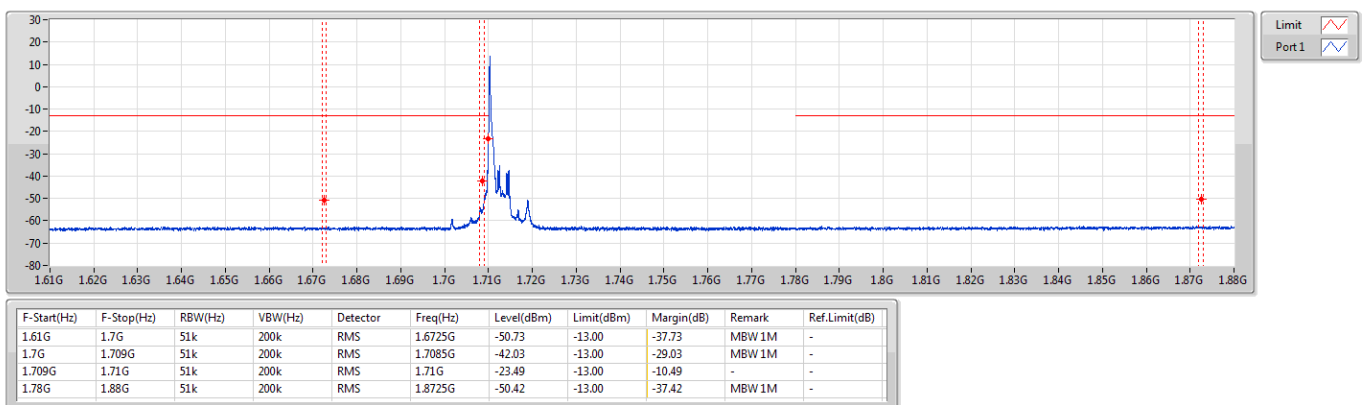
Band 66_LTE_5MHz_Nss1,256QAM_1TX
1712.5MHz_256QAM_RB 25,#RB 0

CSE-TX-Sum



Band 66_LTE_5MHz_Nss1,256QAM_1TX
1712.5MHz_256QAM_RB 1,#RB L

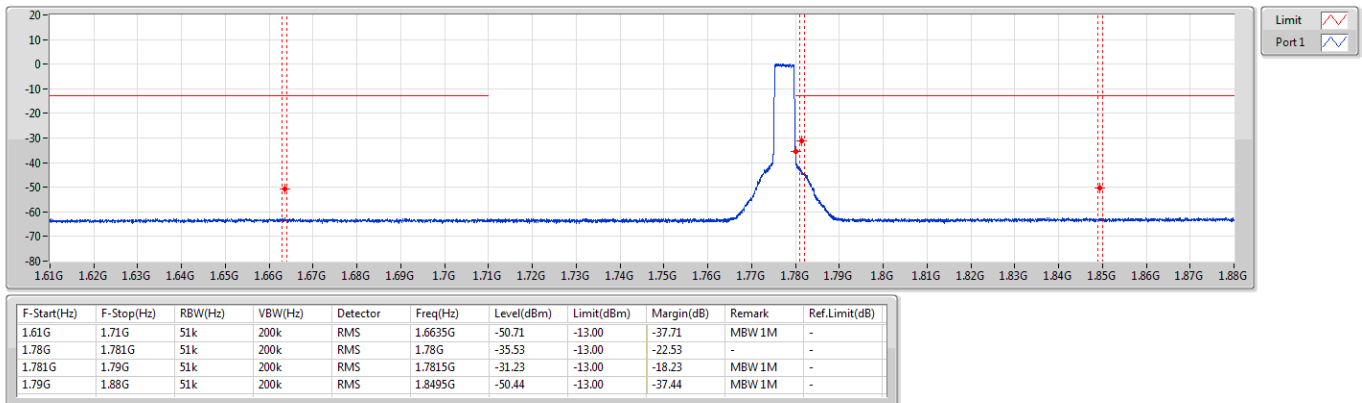
CSE-TX-Sum





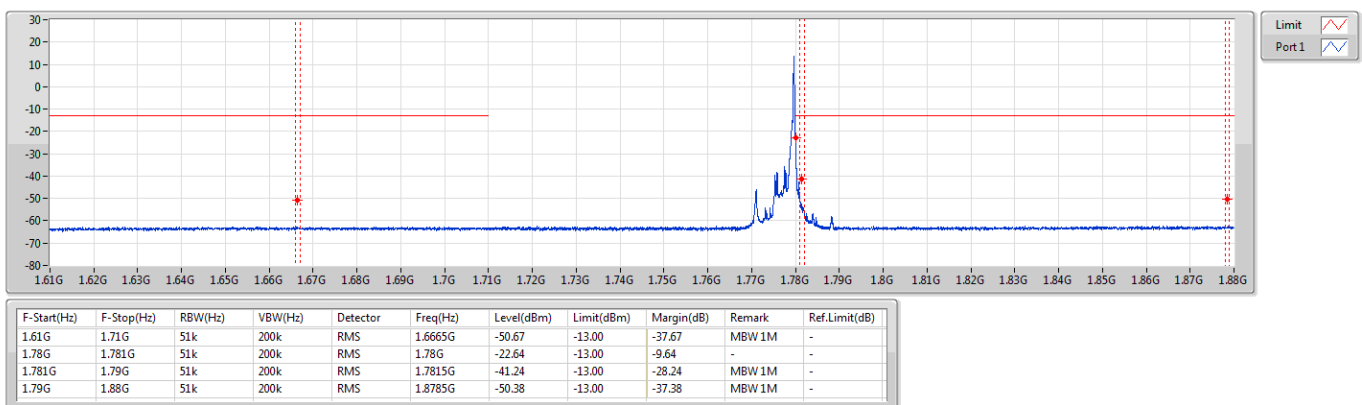
Band 66_LTE_5MHz_Nss1,256QAM_1TX
1777.5MHz_256QAM_RB 25,#RB 0

CSE-TX-Sum



Band 66_LTE_5MHz_Nss1,256QAM_1TX
1777.5MHz_256QAM_RB 1,#RB R

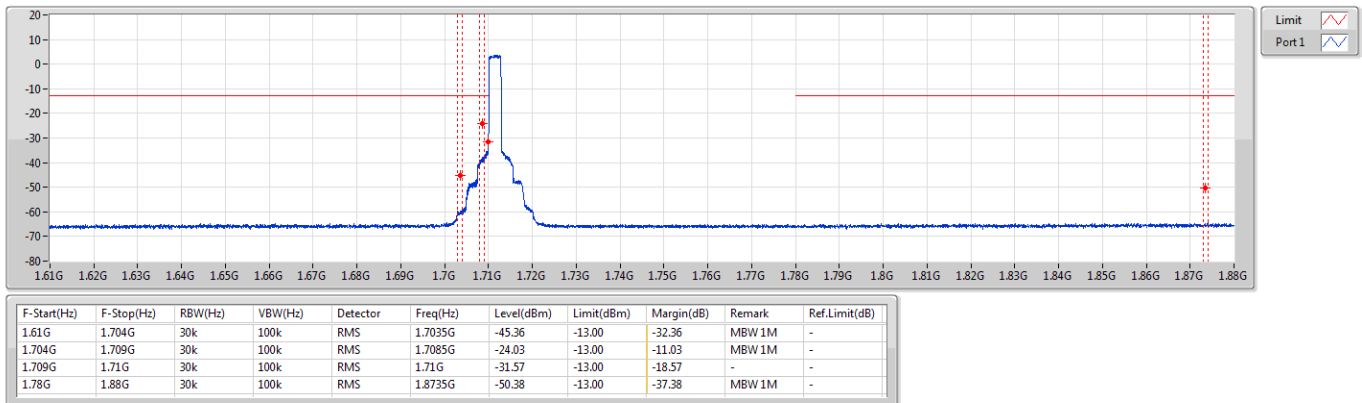
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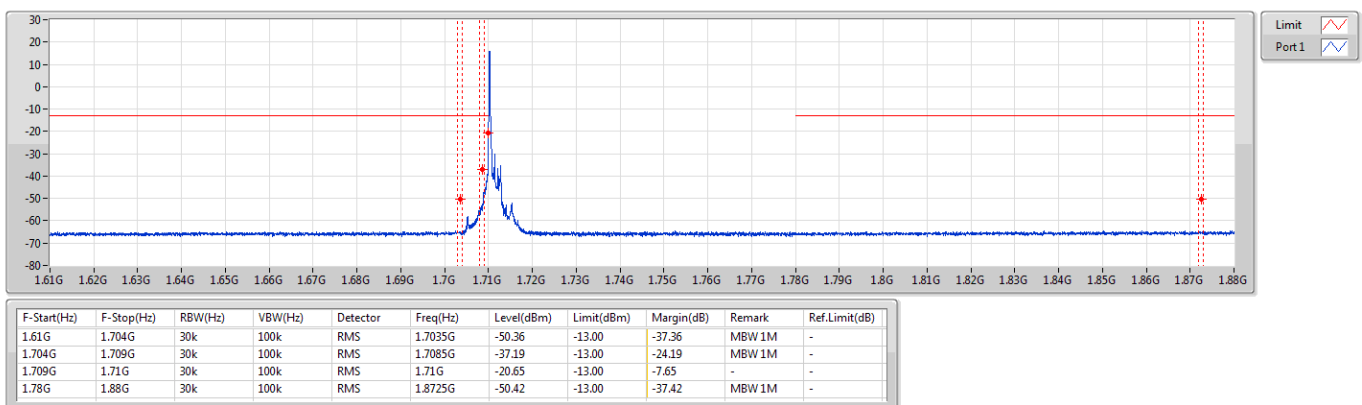
Band 66_LTE_3MHz_Nss1,QPSK_1TX
1711.5MHz_QPSK_RB 15,#RB 0

CSE-TX-Sum



Band 66_LTE_3MHz_Nss1,QPSK_1TX
1711.5MHz_QPSK_RB 1,#RB L

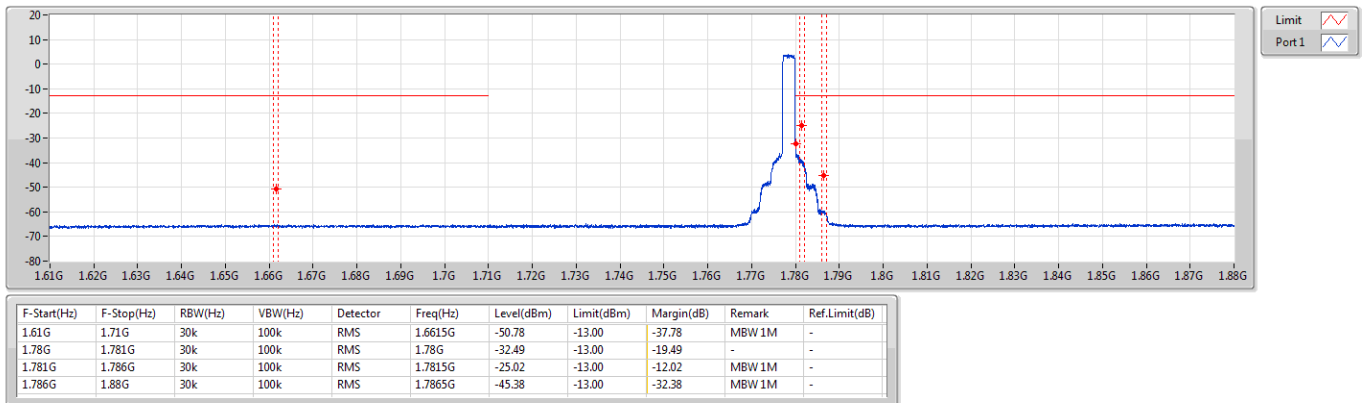
CSE-TX-Sum





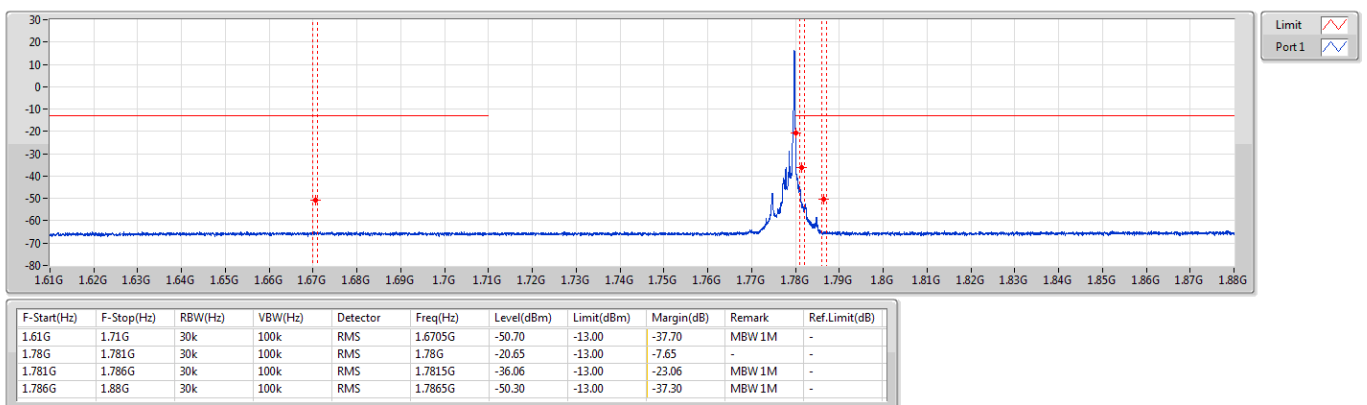
Band 66_LTE_3MHz_Nss1,QPSK_1TX
1778.5MHz_QPSK_RB 15,#RB 0

CSE-TX-Sum



Band 66_LTE_3MHz_Nss1,QPSK_1TX
1778.5MHz_QPSK_RB 1,#RB R

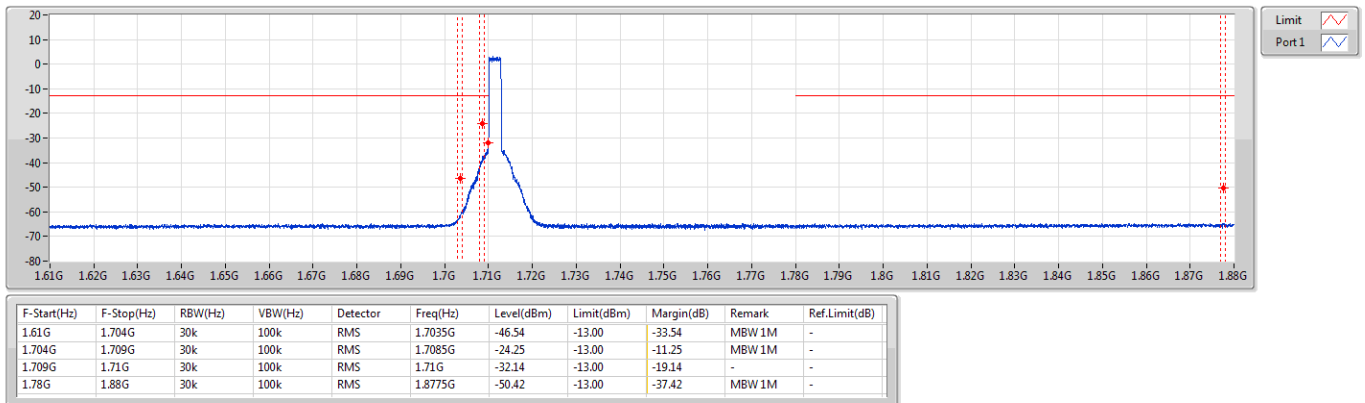
CSE-TX-Sum





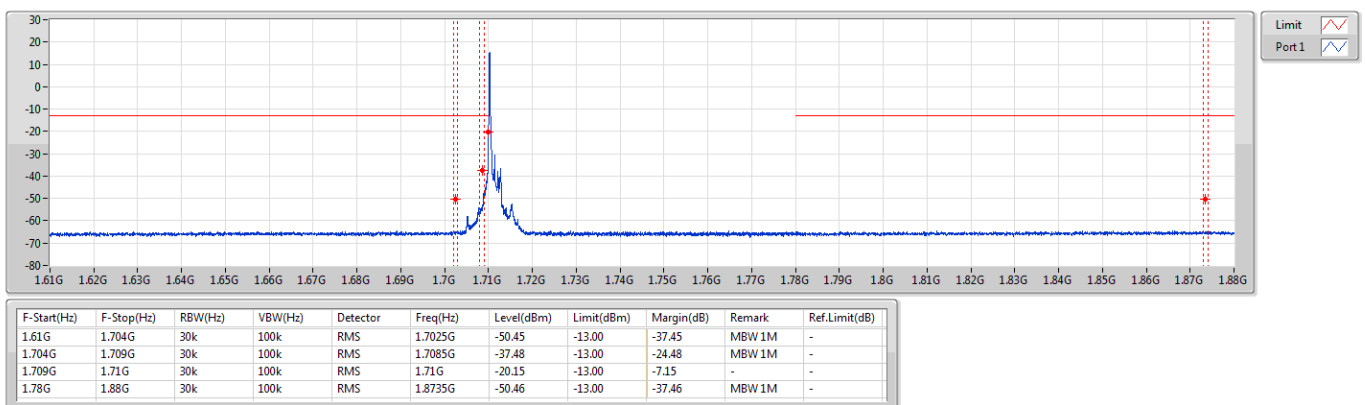
Band 66_LTE_3MHz_Nss1,16QAM_1TX
1711.5MHz_16QAM_RB 15,#RB 0

CSE-TX-Sum



Band 66_LTE_3MHz_Nss1,16QAM_1TX
1711.5MHz_16QAM_RB 1,#RB L

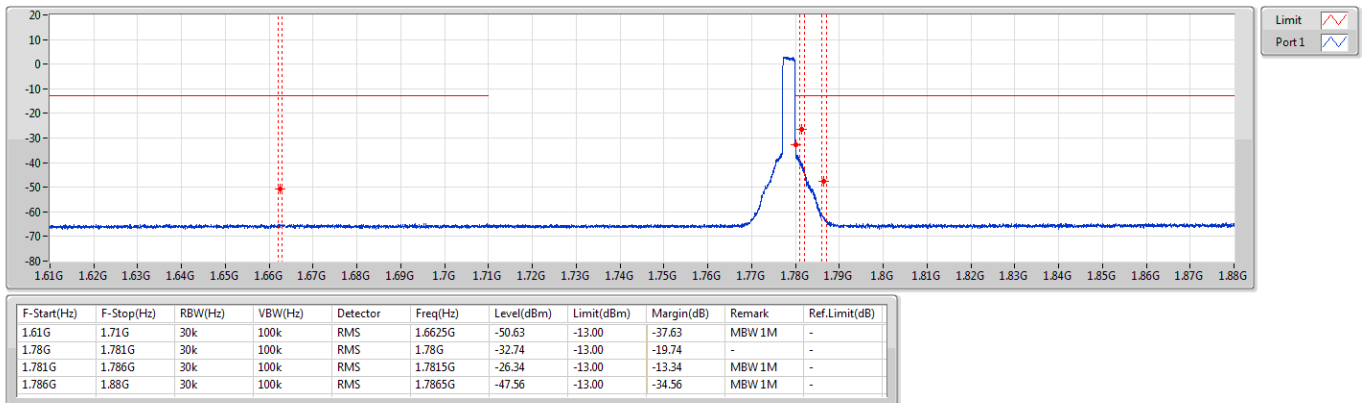
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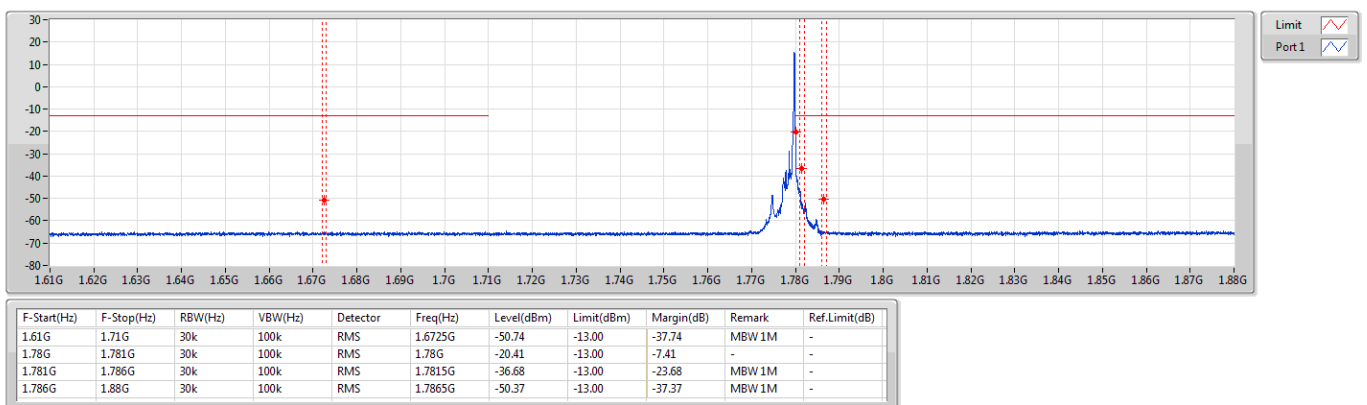
Band 66_LTE_3MHz_Nss1,16QAM_1TX
1778.5MHz_16QAM_RB 15,#RB 0

CSE-TX-Sum



Band 66_LTE_3MHz_Nss1,16QAM_1TX
1778.5MHz_16QAM_RB 1,#RB R

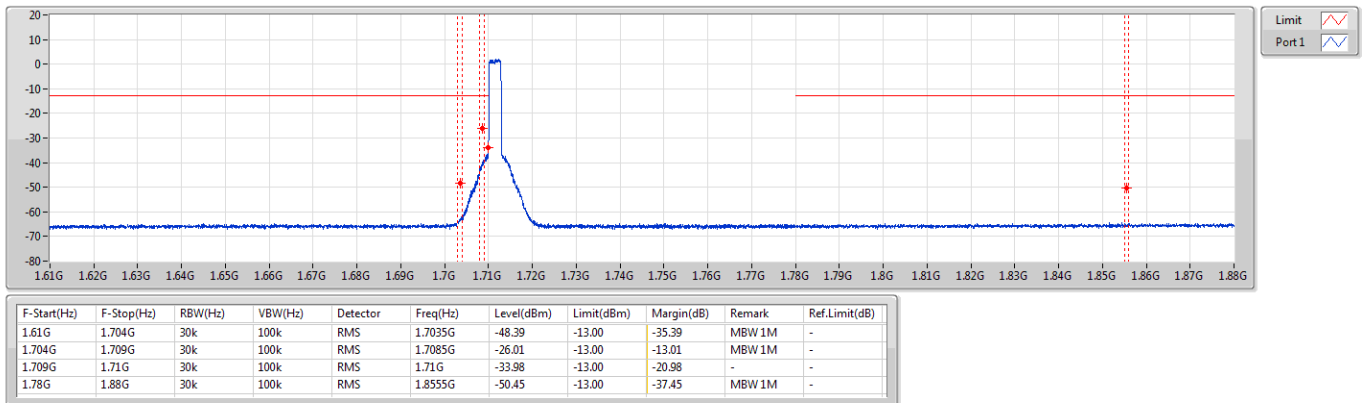
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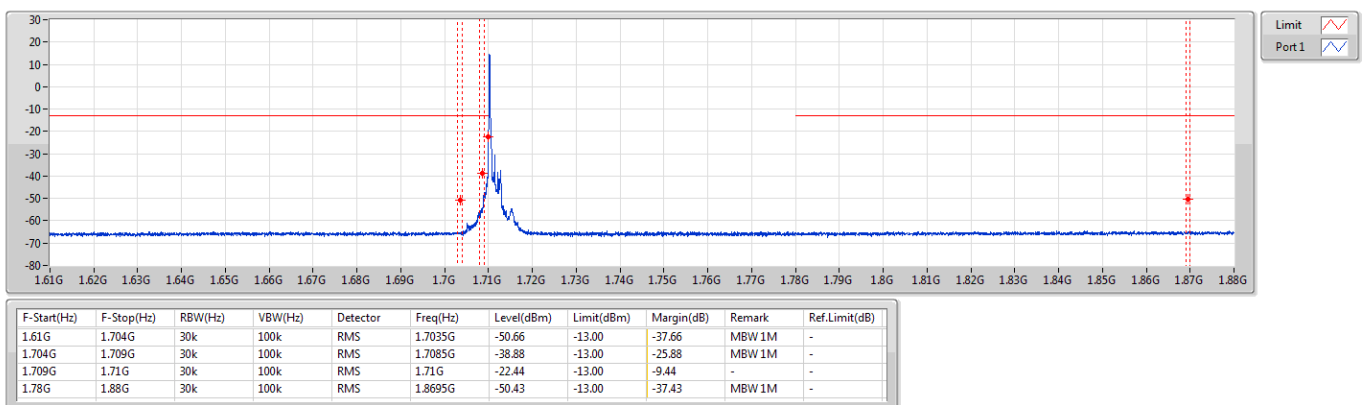
Band 66_LTE_3MHz_Nss1,64QAM_1TX
1711.5MHz_64QAM_RB 15,#RB 0

CSE-TX-Sum



Band 66_LTE_3MHz_Nss1,64QAM_1TX
1711.5MHz_64QAM_RB 1,#RB L

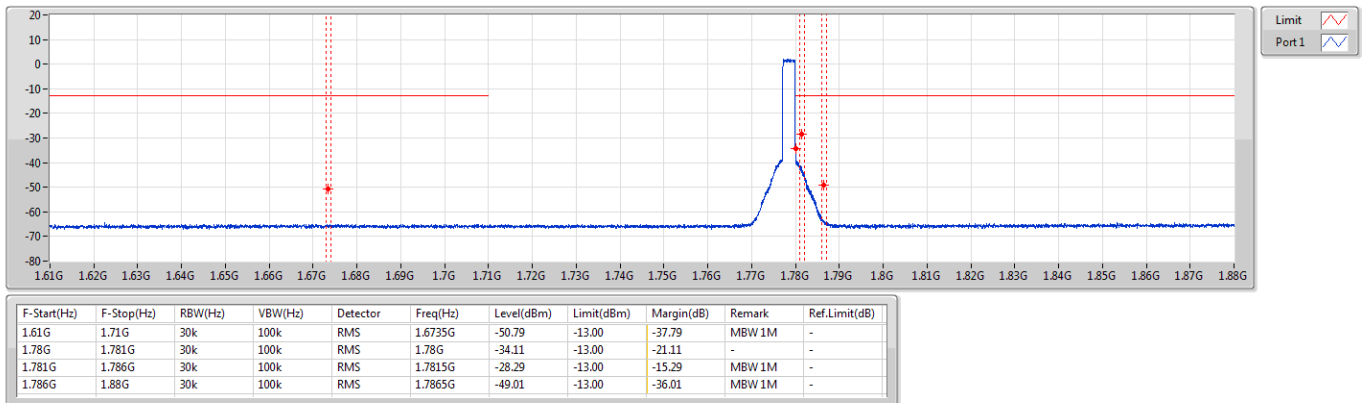
CSE-TX-Sum





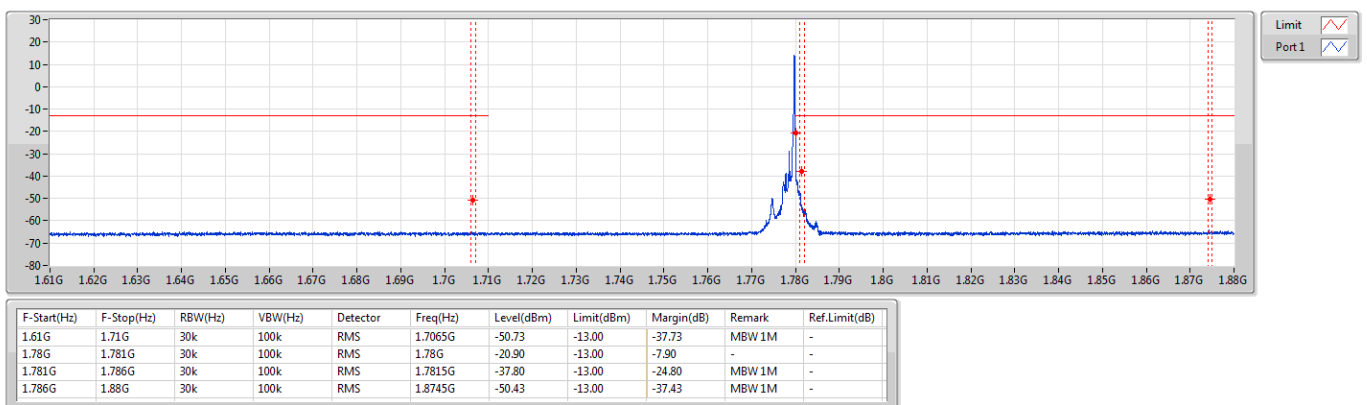
Band 66_LTE_3MHz_Nss1,64QAM_1TX
1778.5MHz_64QAM_RB 15,#RB 0

CSE-TX-Sum



Band 66_LTE_3MHz_Nss1,64QAM_1TX
1778.5MHz_64QAM_RB 1,#RB R

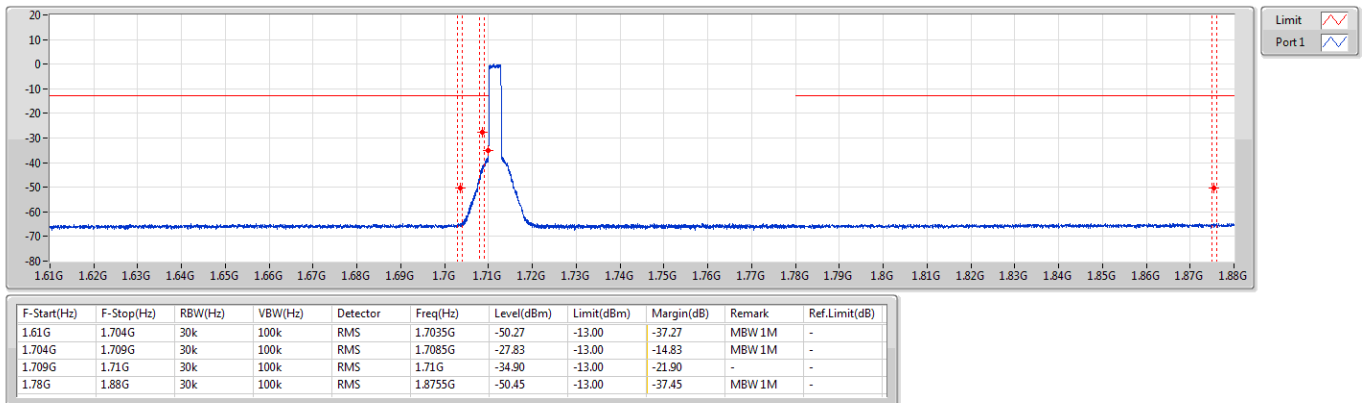
CSE-TX-Sum





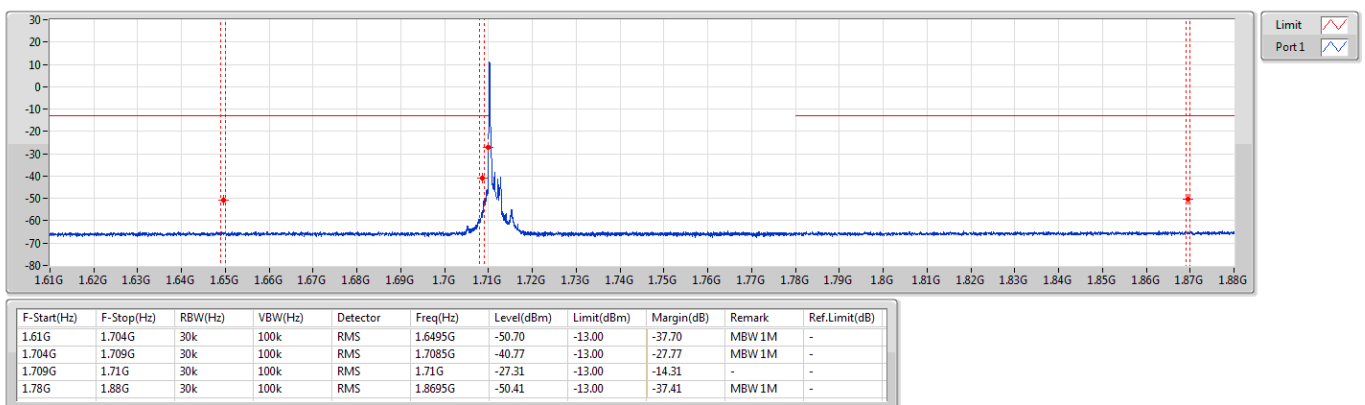
Band 66_LTE_3MHz_Nss1,256QAM_1TX
1711.5MHz_256QAM_RB 15,#RB 0

CSE-TX-Sum



Band 66_LTE_3MHz_Nss1,256QAM_1TX
1711.5MHz_256QAM_RB 1,#RB L

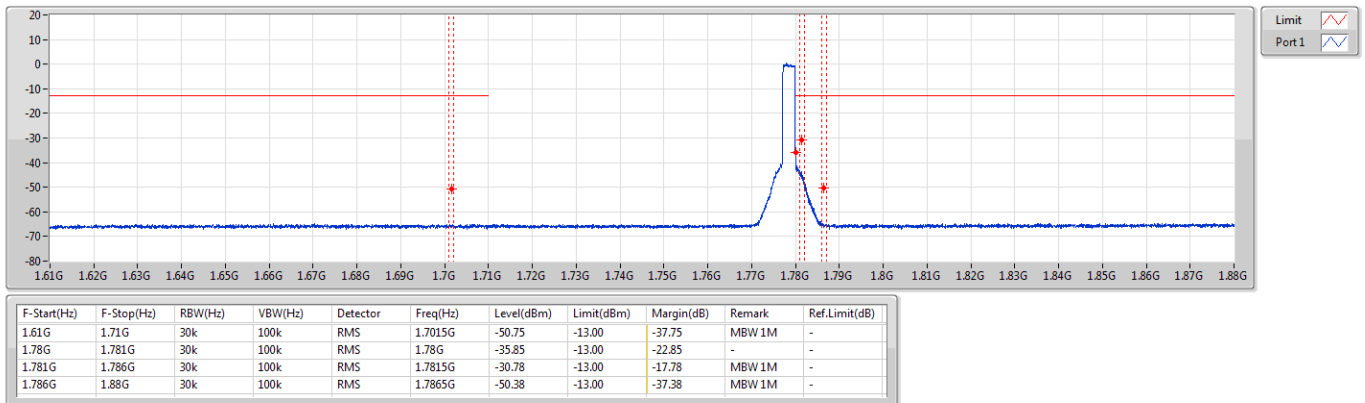
CSE-TX-Sum





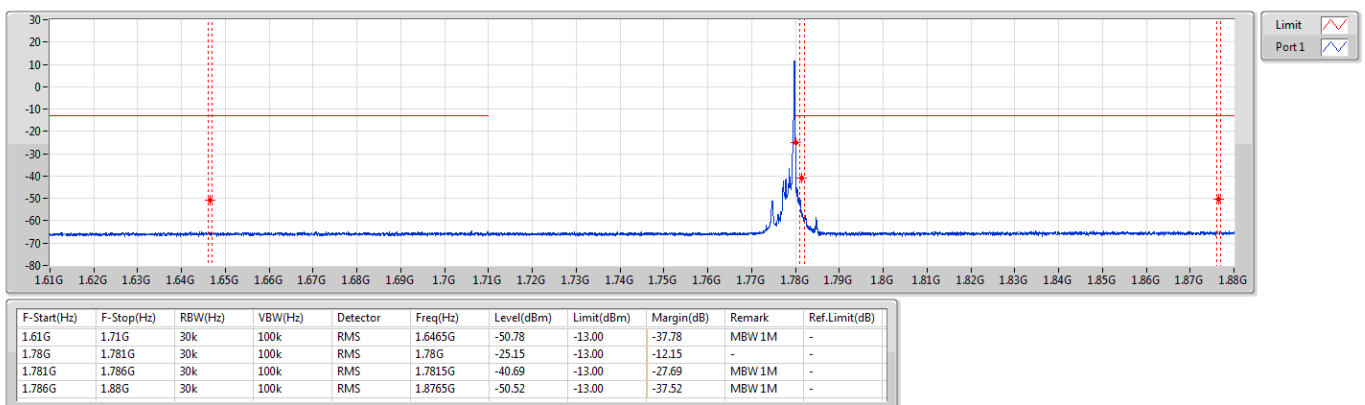
Band 66_LTE_3MHz_Nss1,256QAM_1TX
1778.5MHz_256QAM_RB 15,#RB 0

CSE-TX-Sum



Band 66_LTE_3MHz_Nss1,256QAM_1TX
1778.5MHz_256QAM_RB 1,#RB R

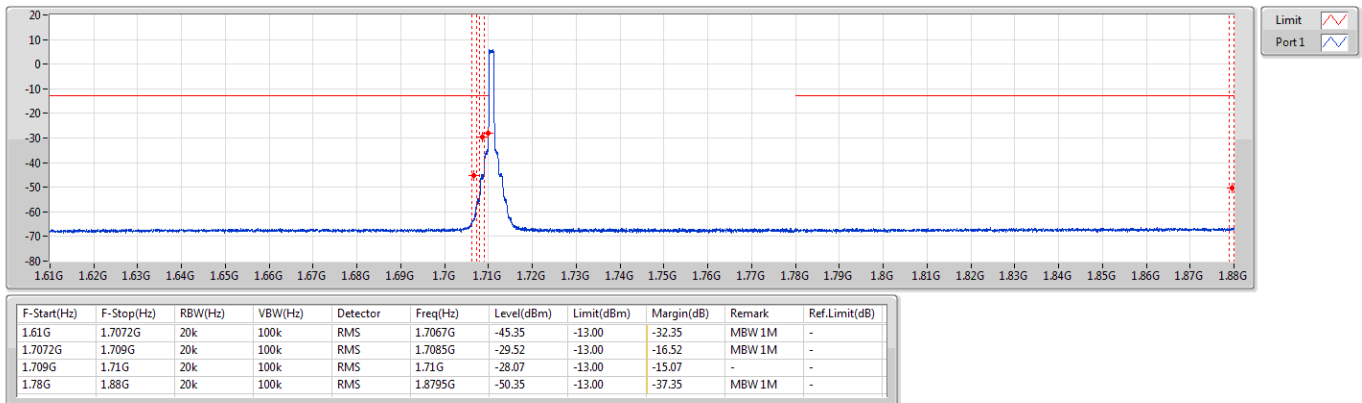
CSE-TX-Sum





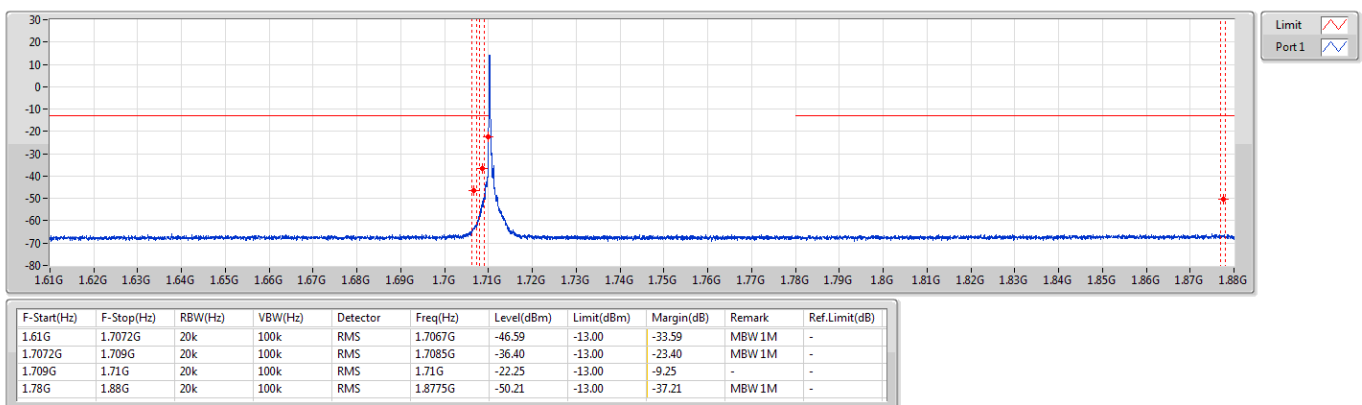
Band 66_LTE_1.4MHz_Nss1,QPSK_1TX
1710.7MHz_QPSK_RB 6,#RB 0

CSE-TX-Sum



Band 66_LTE_1.4MHz_Nss1,QPSK_1TX
1710.7MHz_QPSK_RB 1,#RB L

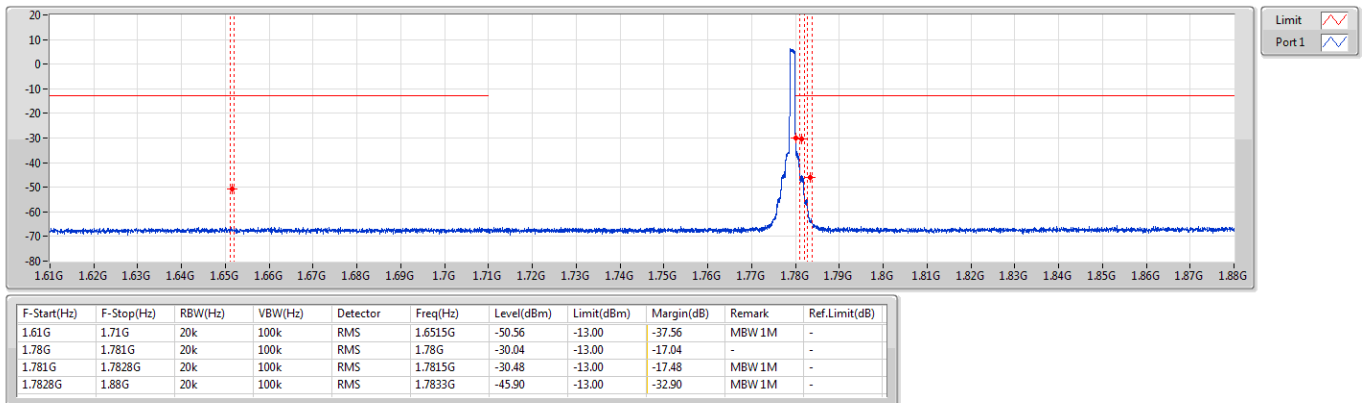
CSE-TX-Sum





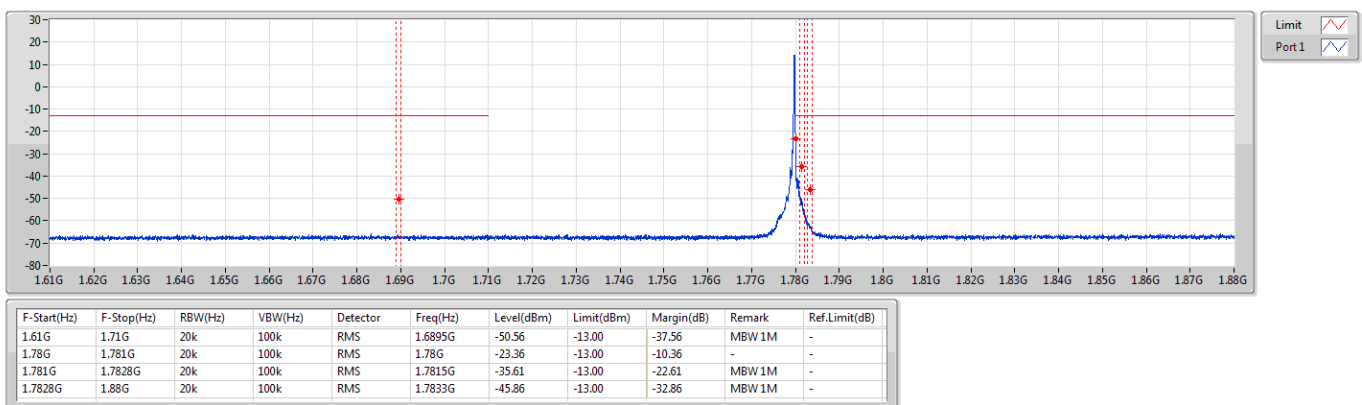
Band 66_LTE_1.4MHz_Nss1,QPSK_1TX
1779.3MHz_QPSK_RB 6,#RB 0

CSE-TX-Sum



Band 66_LTE_1.4MHz_Nss1,QPSK_1TX
1779.3MHz_QPSK_RB 1,#RB R

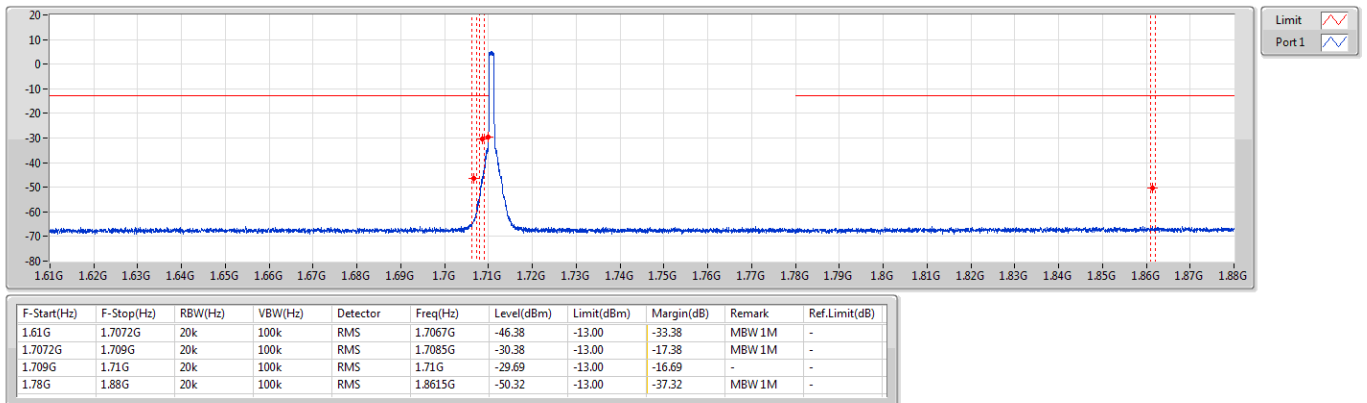
CSE-TX-Sum





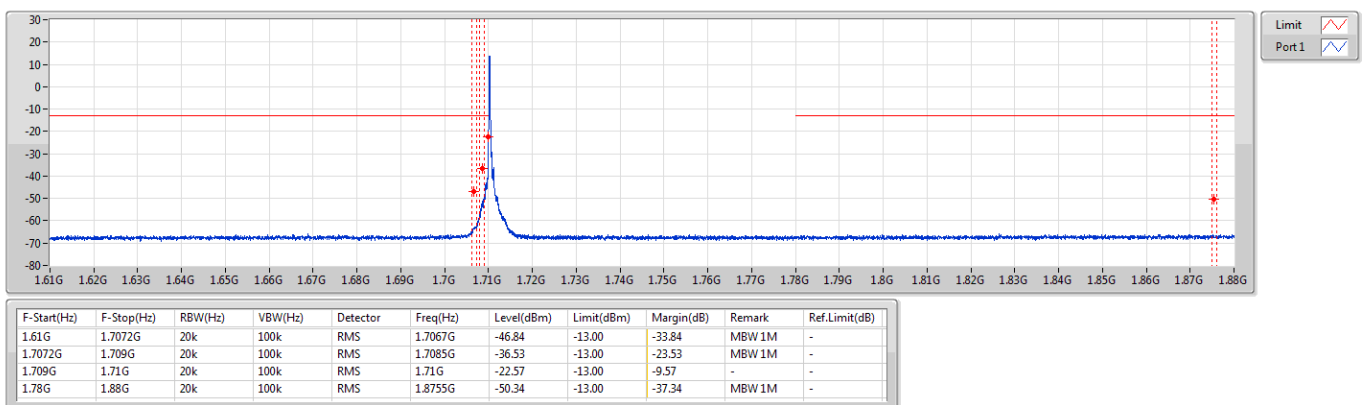
Band 66_LTE_1.4MHz_Nss1,16QAM_1TX
1710.7MHz_16QAM_RB 6,#RB 0

CSE-TX-Sum



Band 66_LTE_1.4MHz_Nss1,16QAM_1TX
1710.7MHz_16QAM_RB 1,#RB 1

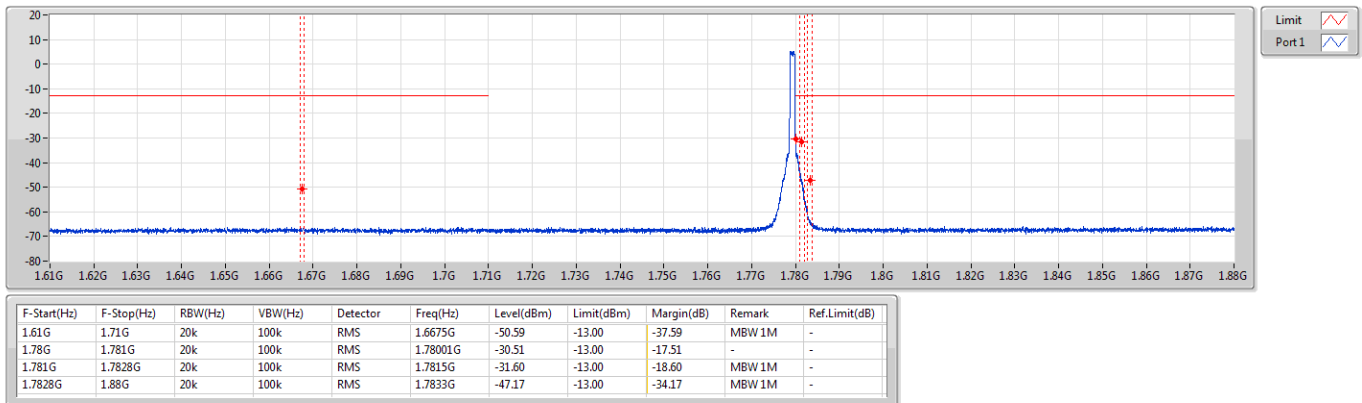
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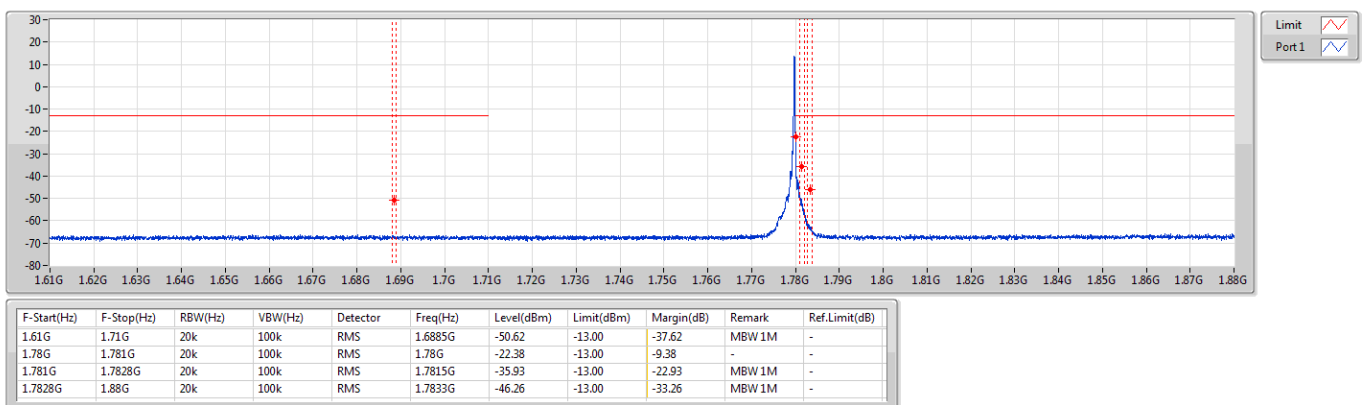
Band 66_LTE_1.4MHz_Nss1,16QAM_1TX
1779.3MHz_16QAM_RB 6,#RB 0

CSE-TX-Sum



Band 66_LTE_1.4MHz_Nss1,16QAM_1TX
1779.3MHz_16QAM_RB 1,#RB R

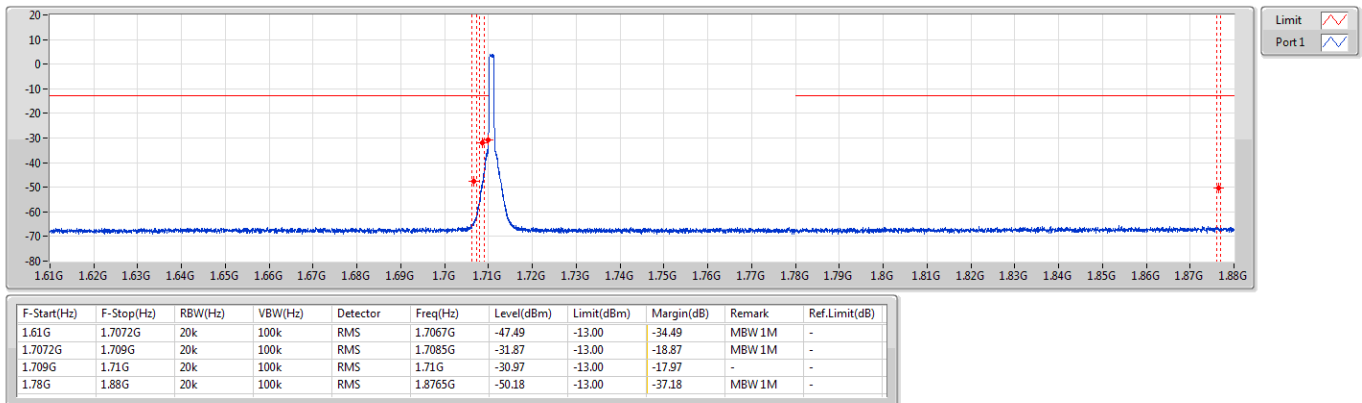
CSE-TX-Sum





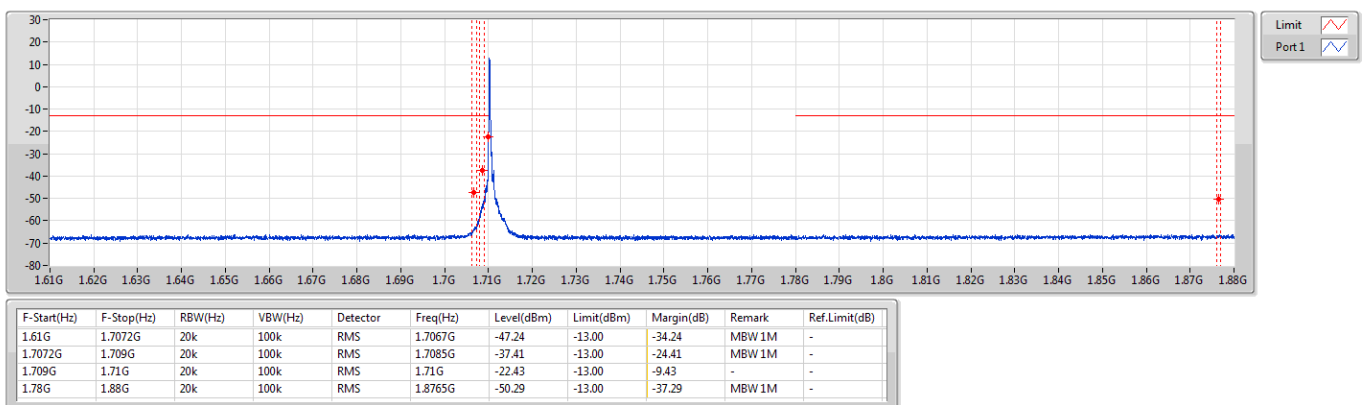
Band 66_LTE_1.4MHz_Nss1,64QAM_1TX
1710.7MHz_64QAM_RB 6,#RB 0

CSE-TX-Sum



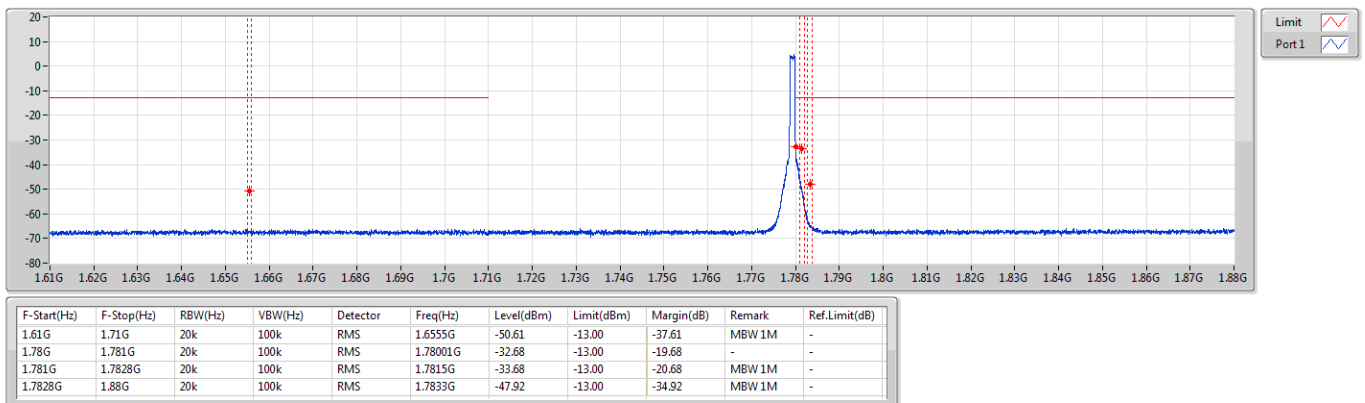
Band 66_LTE_1.4MHz_Nss1,64QAM_1TX
1710.7MHz_64QAM_RB 1,#RB L

CSE-TX-Sum



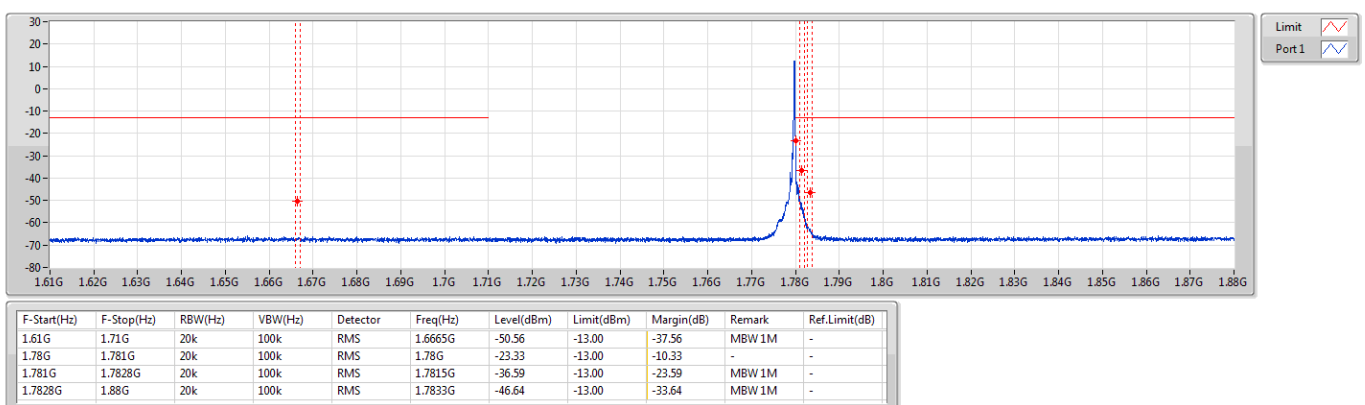
Band 66_LTE_1.4MHz_Nss1,64QAM_1TX
1779.3MHz_64QAM_RB 6,#RB 0

CSE-TX-Sum



Band 66_LTE_1.4MHz_Nss1,64QAM_1TX
1779.3MHz_64QAM_RB 1,#RB R

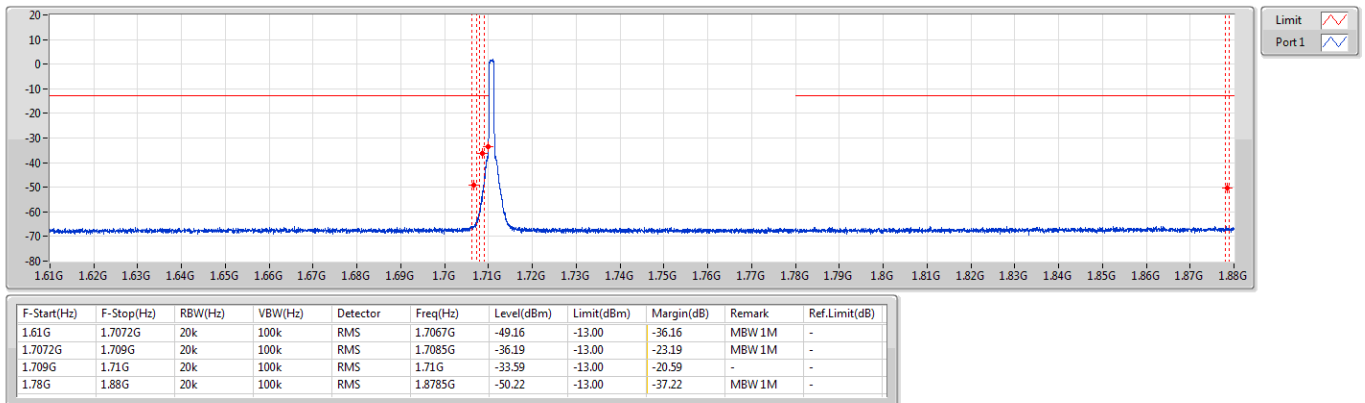
CSE-TX-Sum





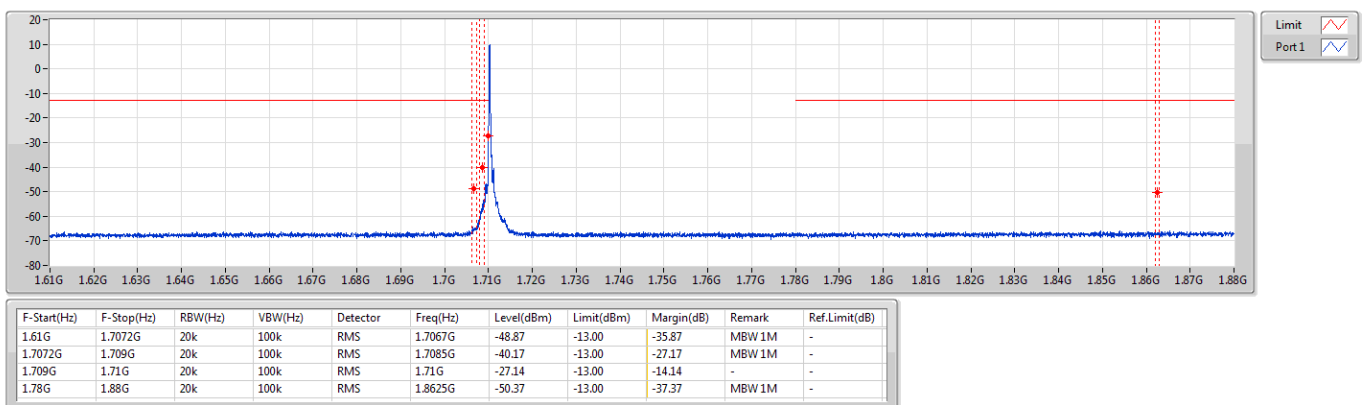
Band 66_LTE_1.4MHz_Nss1,256QAM_1TX
1710.7MHz_256QAM_RB 6,#RB 0

CSE-TX-Sum



Band 66_LTE_1.4MHz_Nss1,256QAM_1TX
1710.7MHz_256QAM_RB 1,#RB L

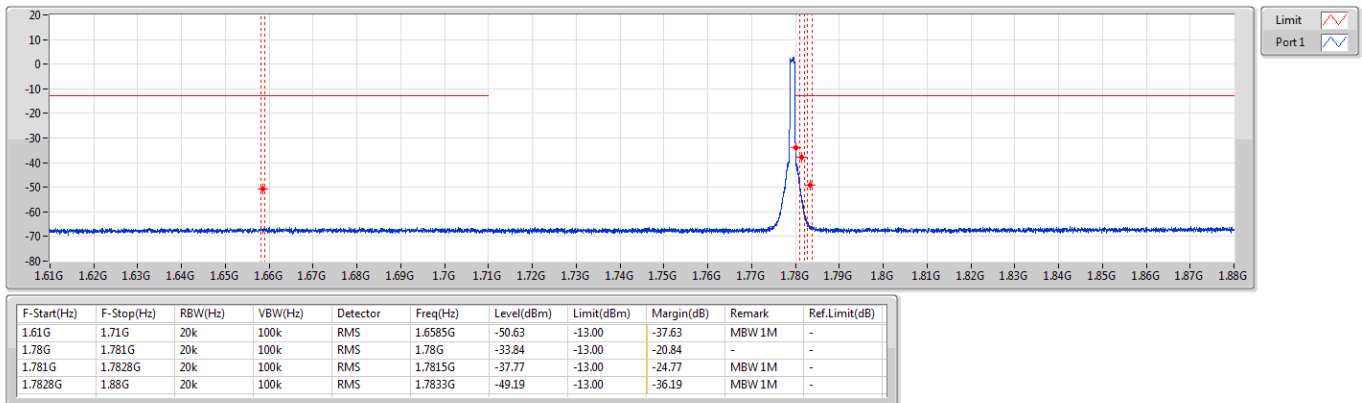
CSE-TX-Sum





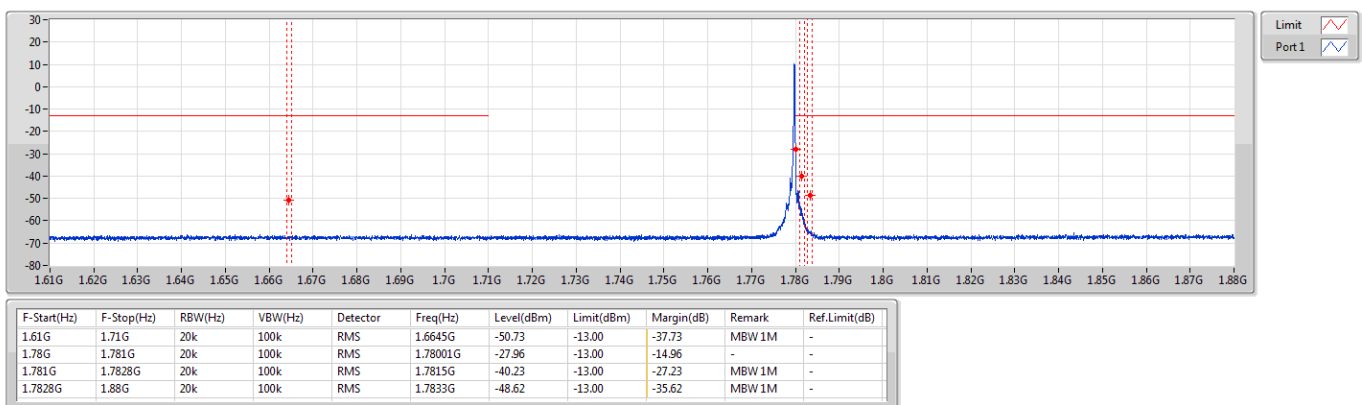
Band 66_LTE_1.4MHz_Nss1,256QAM_1TX
1779.3MHz_256QAM_RB 6,#RB 0

CSE-TX-Sum



Band 66_LTE_1.4MHz_Nss1,256QAM_1TX
1779.3MHz_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 66	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	18.725M	17.836M	17M9G7D	18.725M	17.836M
LTE_20MHz_Nss1,16QAM_1TX	18.8M	17.784M	17M8W7D	18.8M	17.784M
LTE_20MHz_Nss1,64QAM_1TX	18.95M	17.796M	17M8W7D	18.95M	17.796M
LTE_20MHz_Nss1,256QAM_1TX	18.875M	17.815M	17M9W7D	18.875M	17.815M
LTE_15MHz_Nss1,QPSK_1TX	14.25M	13.377M	13M4G7D	14.25M	13.377M
LTE_15MHz_Nss1,16QAM_1TX	14.306M	13.393M	13M4W7D	14.306M	13.393M
LTE_15MHz_Nss1,64QAM_1TX	14.231M	13.375M	13M4W7D	14.231M	13.375M
LTE_15MHz_Nss1,256QAM_1TX	14.269M	13.389M	13M4W7D	14.269M	13.389M
LTE_10MHz_Nss1,QPSK_1TX	9.563M	8.937M	8M94G7D	9.563M	8.937M
LTE_10MHz_Nss1,16QAM_1TX	9.55M	8.932M	8M93W7D	9.55M	8.932M
LTE_10MHz_Nss1,64QAM_1TX	9.55M	8.933M	8M93W7D	9.55M	8.933M
LTE_10MHz_Nss1,256QAM_1TX	9.525M	8.932M	8M93W7D	9.525M	8.932M
LTE_5MHz_Nss1,QPSK_1TX	4.838M	4.466M	4M47G7D	4.838M	4.466M
LTE_5MHz_Nss1,16QAM_1TX	4.825M	4.469M	4M47W7D	4.825M	4.469M
LTE_5MHz_Nss1,64QAM_1TX	4.8M	4.47M	4M47W7D	4.8M	4.47M
LTE_5MHz_Nss1,256QAM_1TX	4.769M	4.479M	4M48W7D	4.769M	4.479M
LTE_3MHz_Nss1,QPSK_1TX	2.854M	2.678M	2M68G7D	2.854M	2.678M
LTE_3MHz_Nss1,16QAM_1TX	2.906M	2.684M	2M68W7D	2.906M	2.684M
LTE_3MHz_Nss1,64QAM_1TX	2.85M	2.679M	2M68W7D	2.85M	2.679M
LTE_3MHz_Nss1,256QAM_1TX	2.869M	2.677M	2M68W7D	2.869M	2.677M
LTE_1.4MHz_Nss1,QPSK_1TX	1.257M	1.087M	1M09G7D	1.257M	1.087M
LTE_1.4MHz_Nss1,16QAM_1TX	1.25M	1.092M	1M09W7D	1.25M	1.092M
LTE_1.4MHz_Nss1,64QAM_1TX	1.267M	1.085M	1M09W7D	1.267M	1.085M
LTE_1.4MHz_Nss1,256QAM_1TX	1.243M	1.081M	1M08W7D	1.243M	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

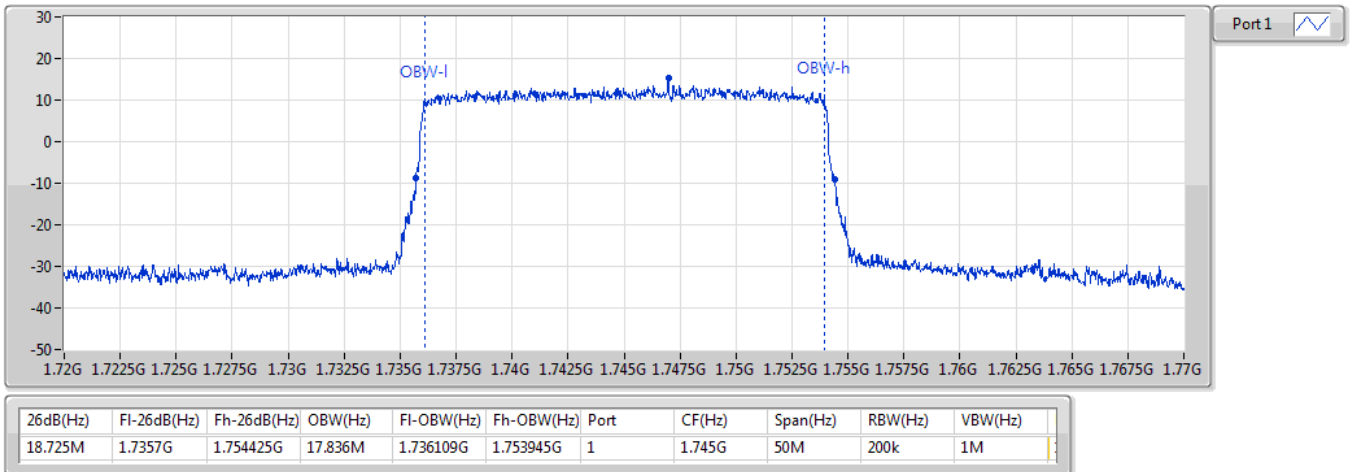
Result

Mode	Result	Port 1-NdB (Hz)	Port 1-OBW (Hz)	Limit (Hz)
Band 66_LTE_20MHz_Nss1_1TX	-	-	-	-
1745MHz_QPSK_RB 100,#RB 0	Pass	18.725M	17.836M	Inf
1745MHz_16QAM_RB 100,#RB 0	Pass	18.8M	17.784M	Inf
1745MHz_64QAM_RB 100,#RB 0	Pass	18.95M	17.796M	Inf
1745MHz_256QAM_RB 100,#RB 0	Pass	18.875M	17.815M	Inf
Band 66_LTE_15MHz_Nss1_1TX	-	-	-	-
1745MHz_QPSK_RB 75,#RB 0	Pass	14.25M	13.377M	Inf
1745MHz_16QAM_RB 75,#RB 0	Pass	14.306M	13.393M	Inf
1745MHz_64QAM_RB 75,#RB 0	Pass	14.231M	13.375M	Inf
1745MHz_256QAM_RB 75,#RB 0	Pass	14.269M	13.389M	Inf
Band 66_LTE_10MHz_Nss1_1TX	-	-	-	-
1745MHz_QPSK_RB 50,#RB 0	Pass	9.563M	8.937M	Inf
1745MHz_16QAM_RB 50,#RB 0	Pass	9.55M	8.932M	Inf
1745MHz_64QAM_RB 50,#RB 0	Pass	9.55M	8.933M	Inf
1745MHz_256QAM_RB 50,#RB 0	Pass	9.525M	8.932M	Inf
Band 66_LTE_5MHz_Nss1_1TX	-	-	-	-
1745MHz_QPSK_RB 25,#RB 0	Pass	4.838M	4.466M	Inf
1745MHz_16QAM_RB 25,#RB 0	Pass	4.825M	4.469M	Inf
1745MHz_64QAM_RB 25,#RB 0	Pass	4.8M	4.47M	Inf
1745MHz_256QAM_RB 25,#RB 0	Pass	4.769M	4.479M	Inf
Band 66_LTE_3MHz_Nss1_1TX	-	-	-	-
1745MHz_QPSK_RB 15,#RB 0	Pass	2.854M	2.678M	Inf
1745MHz_16QAM_RB 15,#RB 0	Pass	2.906M	2.684M	Inf
1745MHz_64QAM_RB 15,#RB 0	Pass	2.85M	2.679M	Inf
1745MHz_256QAM_RB 15,#RB 0	Pass	2.869M	2.677M	Inf
Band 66_LTE_1.4MHz_Nss1_1TX	-	-	-	-
1745MHz_QPSK_RB 6,#RB 0	Pass	1.257M	1.087M	Inf
1745MHz_16QAM_RB 6,#RB 0	Pass	1.25M	1.092M	Inf
1745MHz_64QAM_RB 6,#RB 0	Pass	1.267M	1.085M	Inf
1745MHz_256QAM_RB 6,#RB 0	Pass	1.243M	1.081M	Inf

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

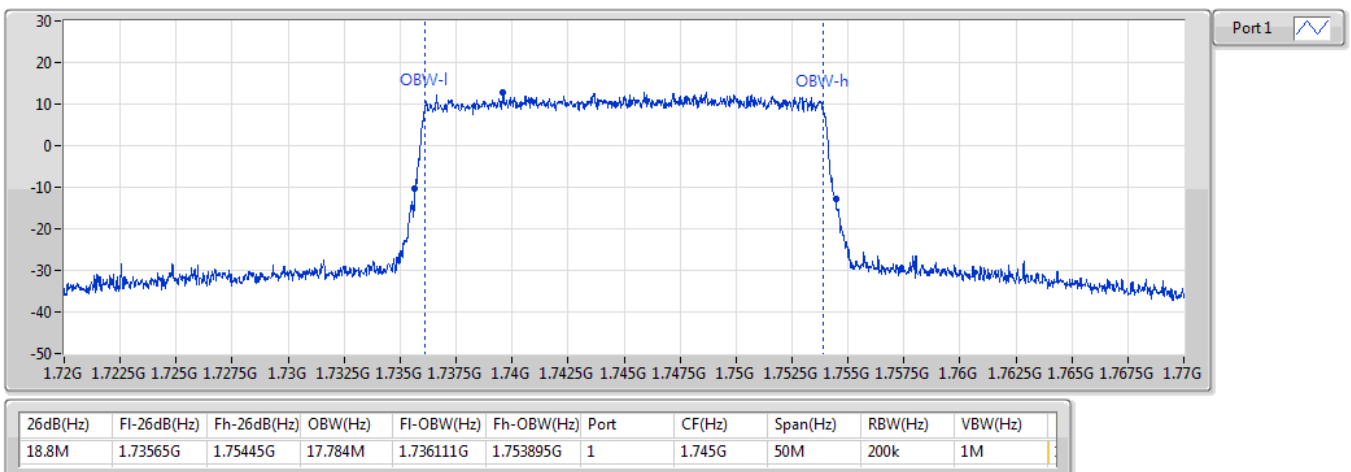
Band 66_LTE_20MHz_Nss1,QPSK_1TX
1745MHz_QPSK_RB 100,#RB 0

EBW



Band 66_LTE_20MHz_Nss1,16QAM_1TX
1745MHz_16QAM_RB 100,#RB 0

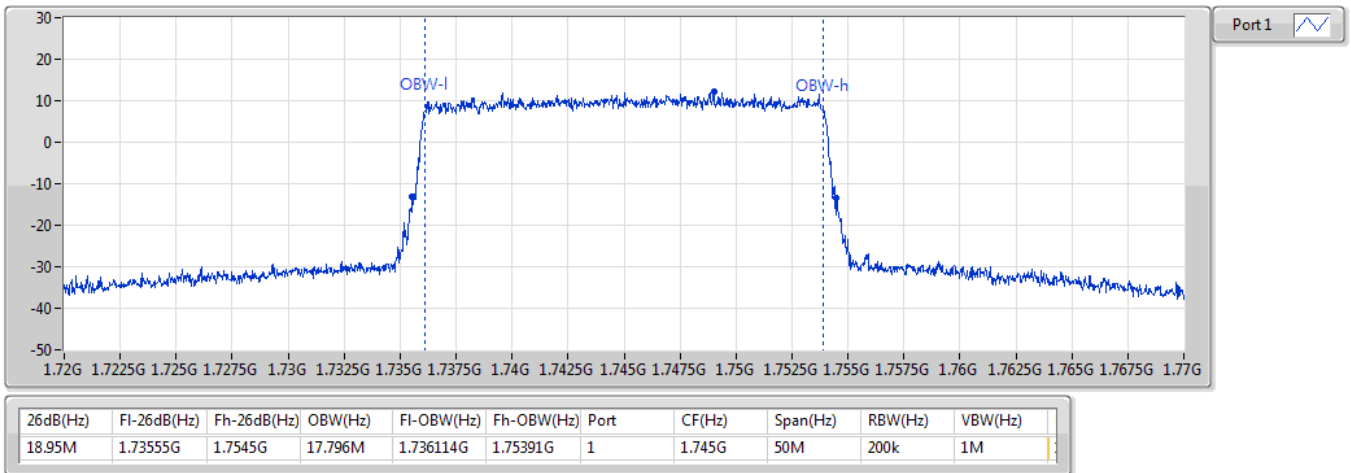
EBW



Band 66_LTE_20MHz_Nss1,64QAM_1TX

EBW

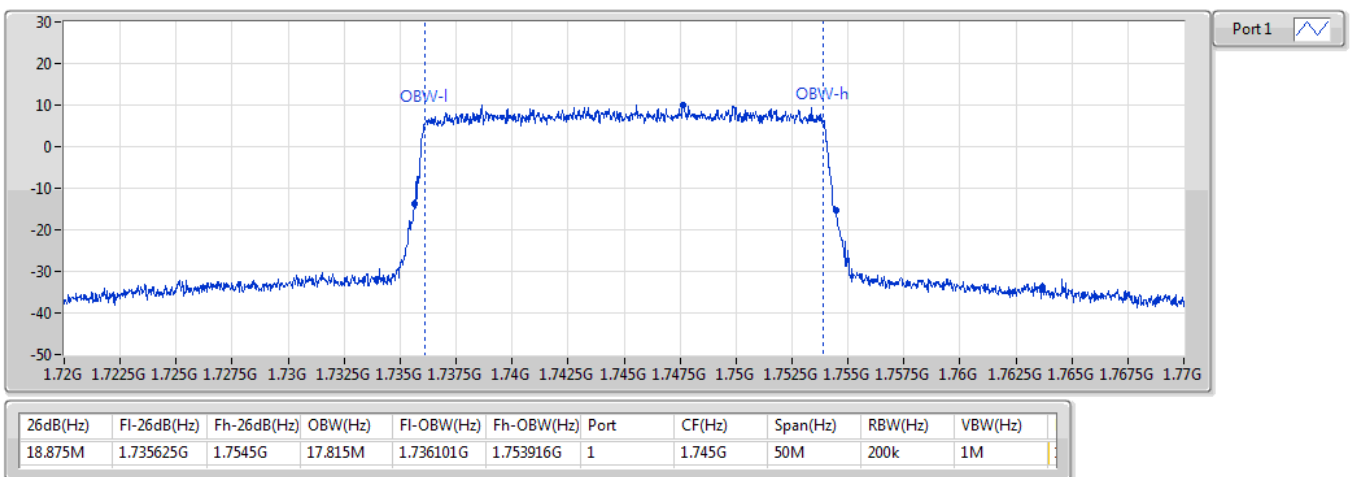
1745MHz_64QAM_RB 100,#RB 0



Band 66_LTE_20MHz_Nss1,256QAM_1TX

EBW

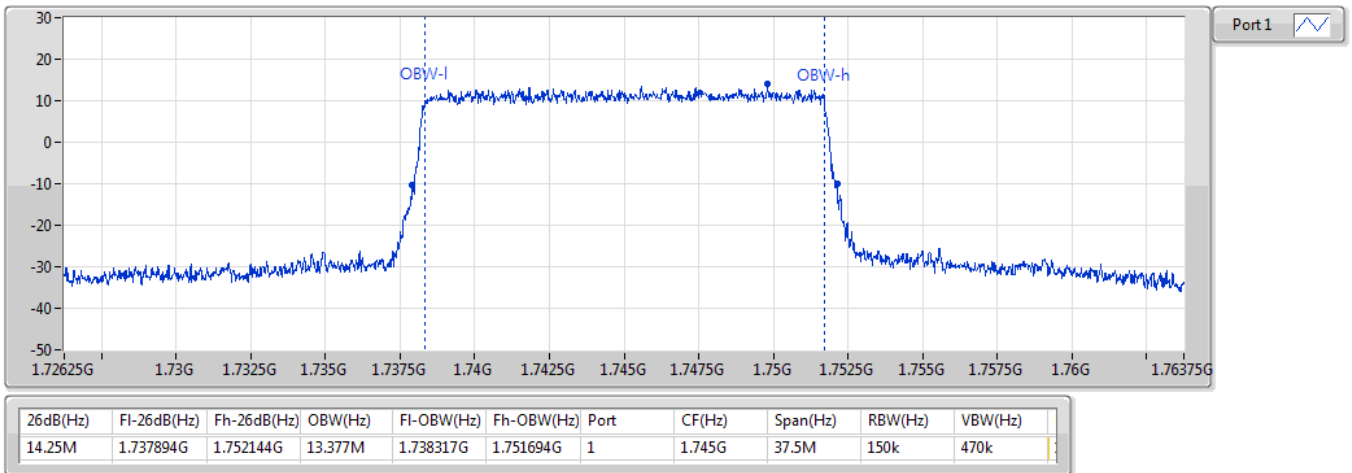
1745MHz_256QAM_RB 100,#RB 0



Band 66_LTE_15MHz_Nss1,QPSK_1TX

EBW

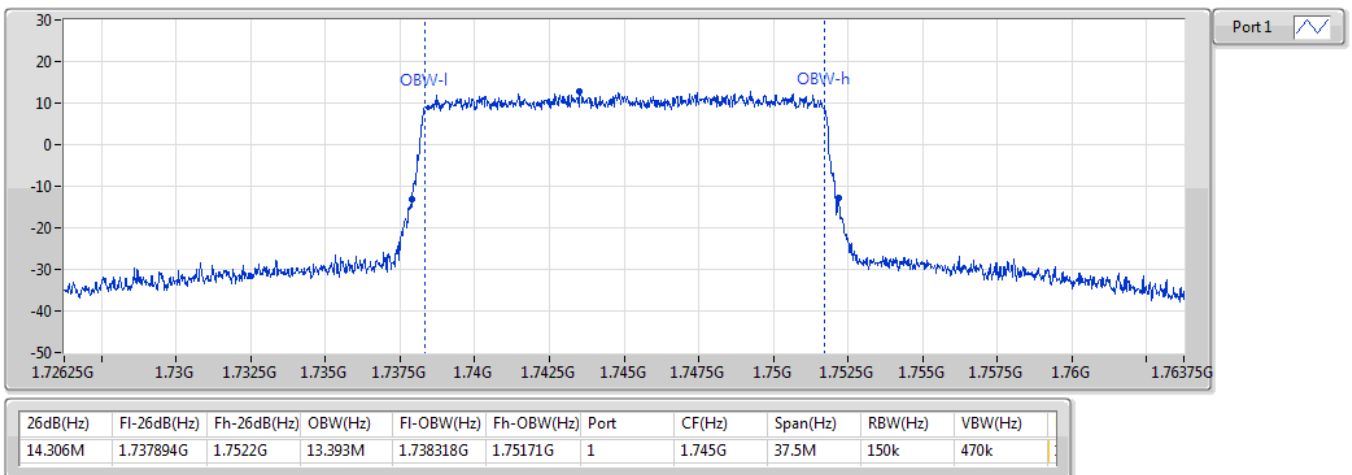
1745MHz_QPSK_RB 75,#RB 0



Band 66_LTE_15MHz_Nss1,16QAM_1TX

EBW

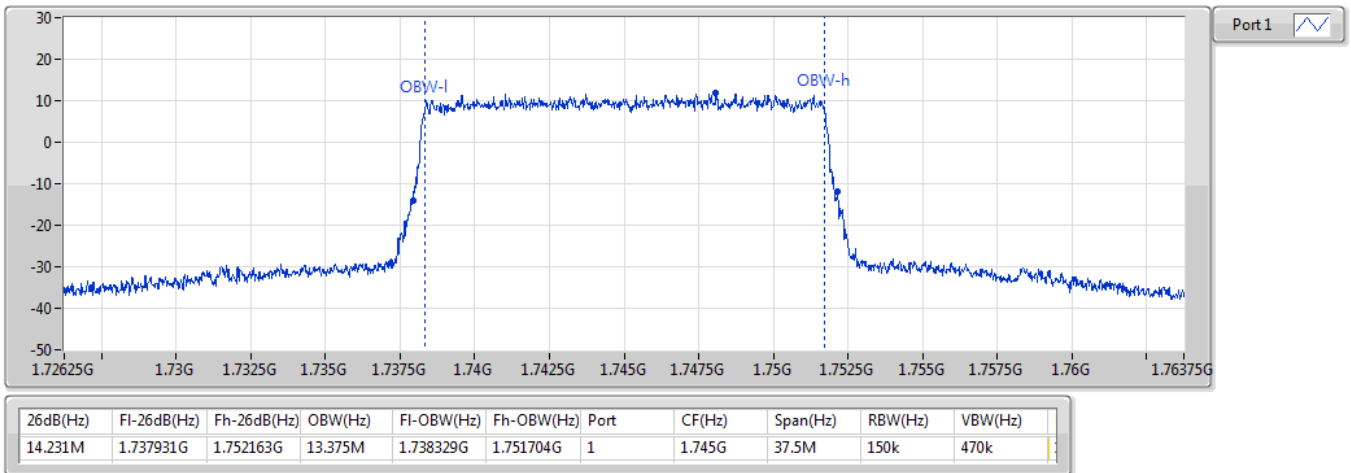
1745MHz_16QAM_RB 75,#RB 0



Band 66_LTE_15MHz_Nss1,64QAM_1TX

EBW

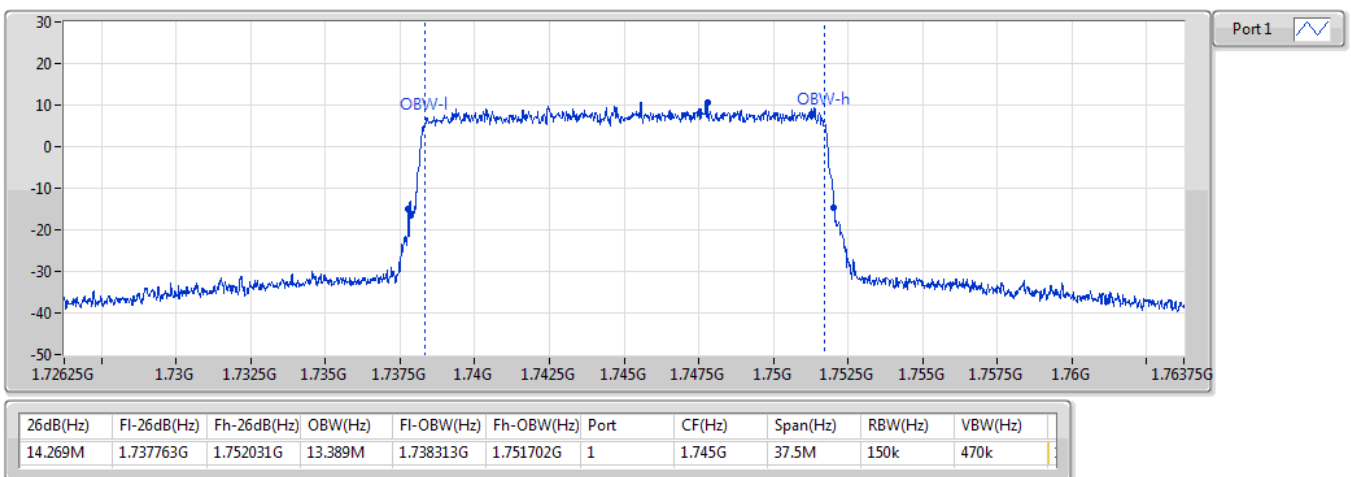
1745MHz_64QAM_RB 75,#RB 0



Band 66_LTE_15MHz_Nss1,256QAM_1TX

EBW

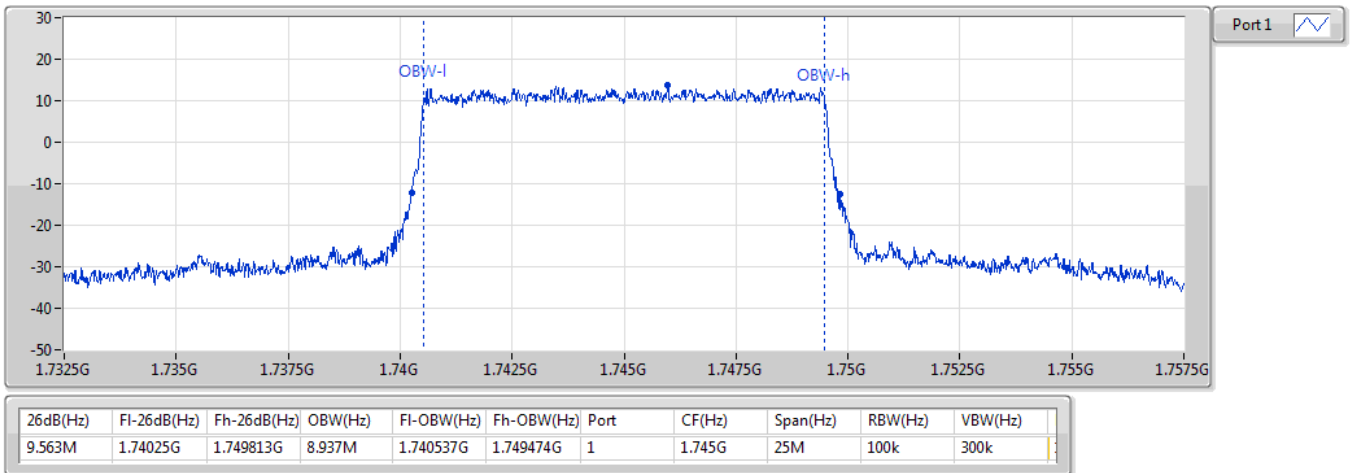
1745MHz_256QAM_RB 75,#RB 0



Band 66_LTE_10MHz_Nss1,QPSK_1TX

EBW

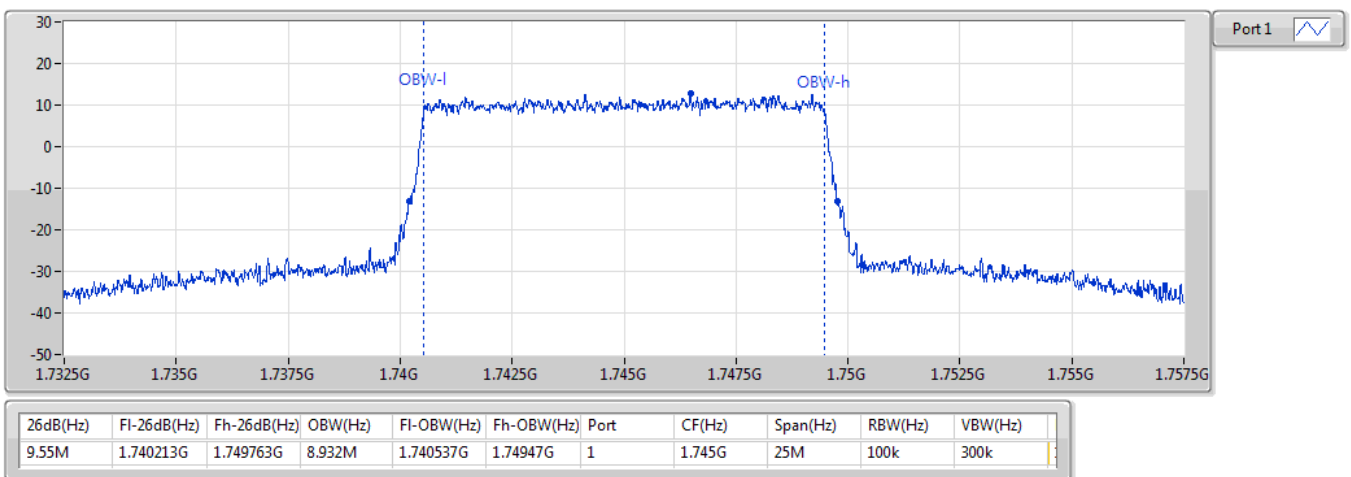
1745MHz_QPSK_RB 50,#RB 0



Band 66_LTE_10MHz_Nss1,16QAM_1TX

EBW

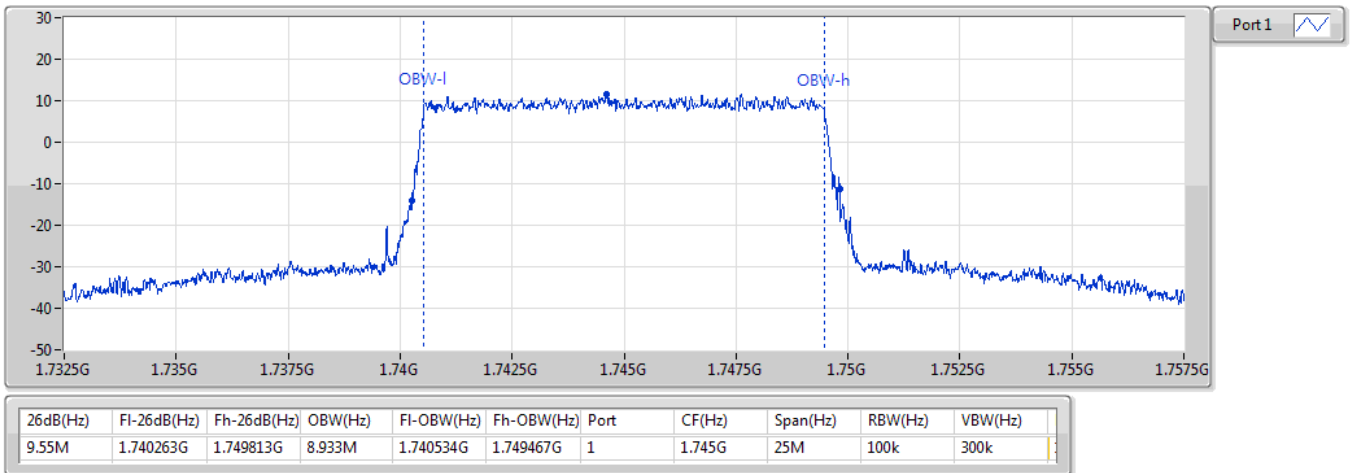
1745MHz_16QAM_RB 50,#RB 0



Band 66_LTE_10MHz_Nss1,64QAM_1TX

EBW

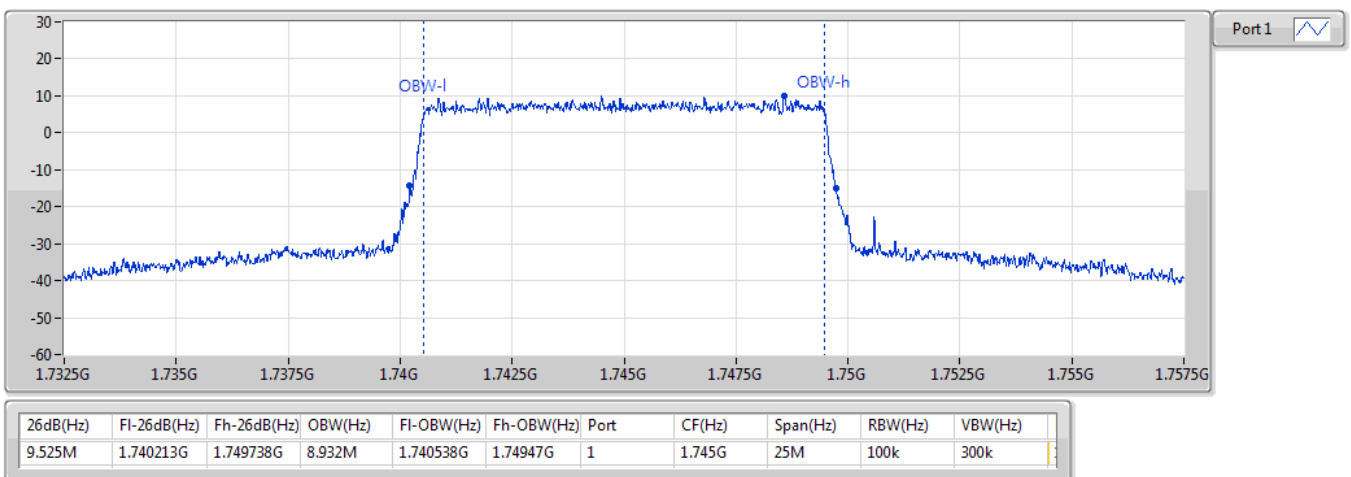
1745MHz_64QAM_RB 50,#RB 0



Band 66_LTE_10MHz_Nss1,256QAM_1TX

EBW

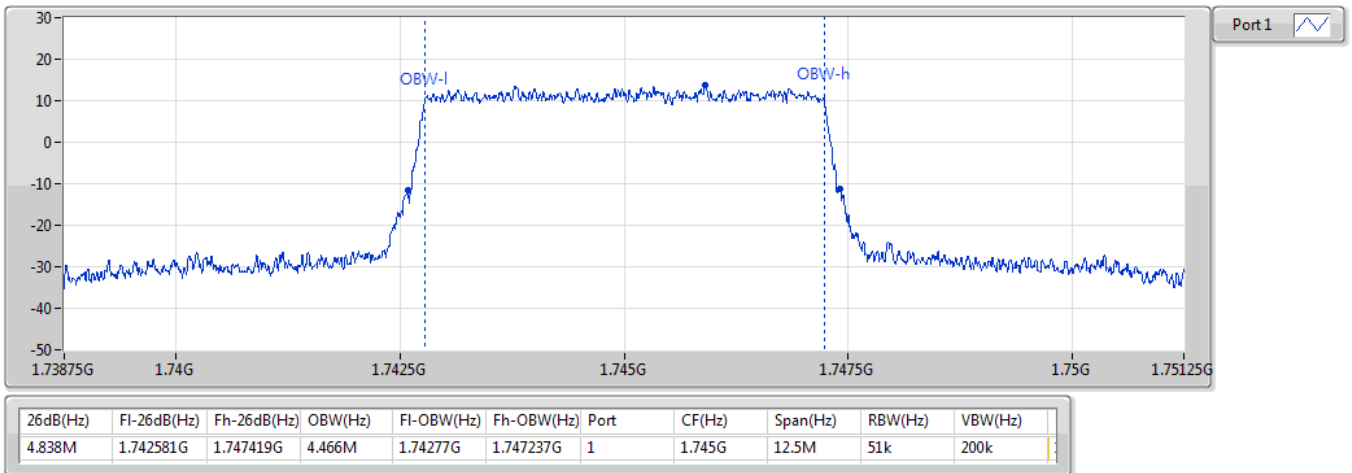
1745MHz_256QAM_RB 50,#RB 0



Band 66_LTE_5MHz_Nss1,QPSK_1TX

EBW

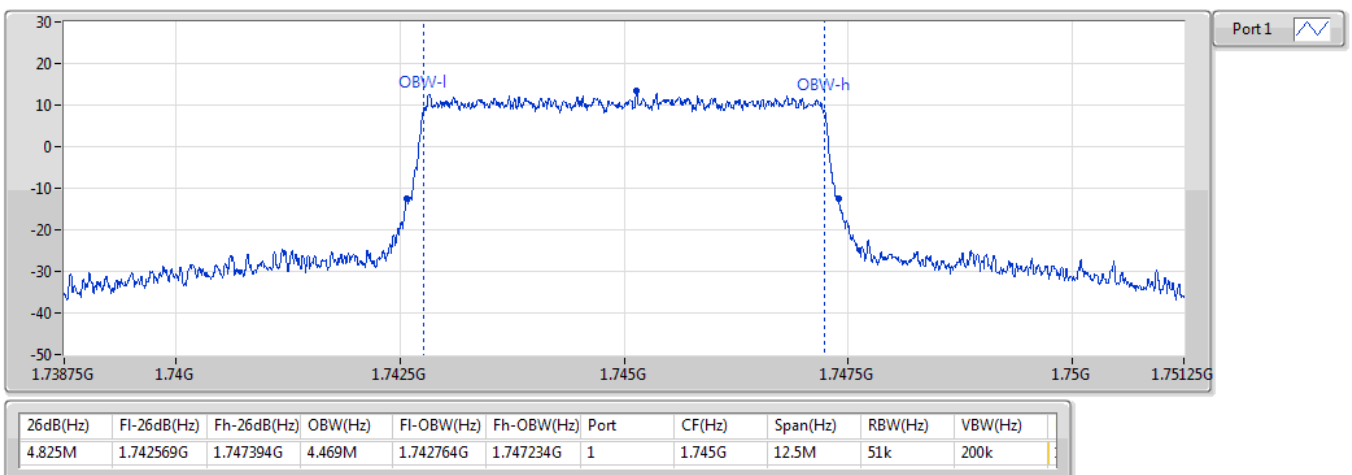
1745MHz_QPSK_RB 25,#RB 0



Band 66_LTE_5MHz_Nss1,16QAM_1TX

EBW

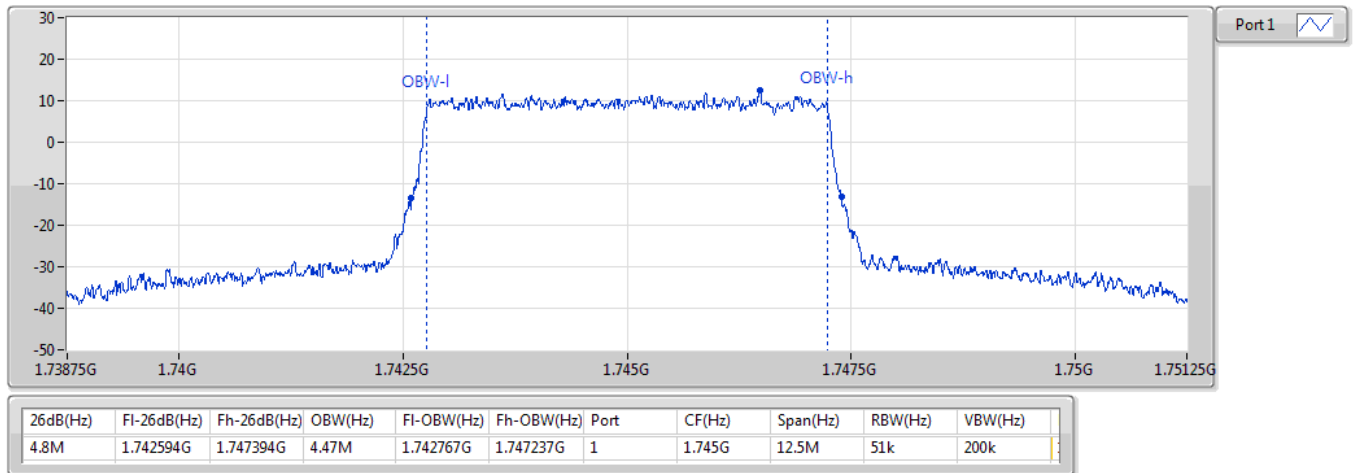
1745MHz_16QAM_RB 25,#RB 0



Band 66_LTE_5MHz_Nss1,64QAM_1TX

EBW

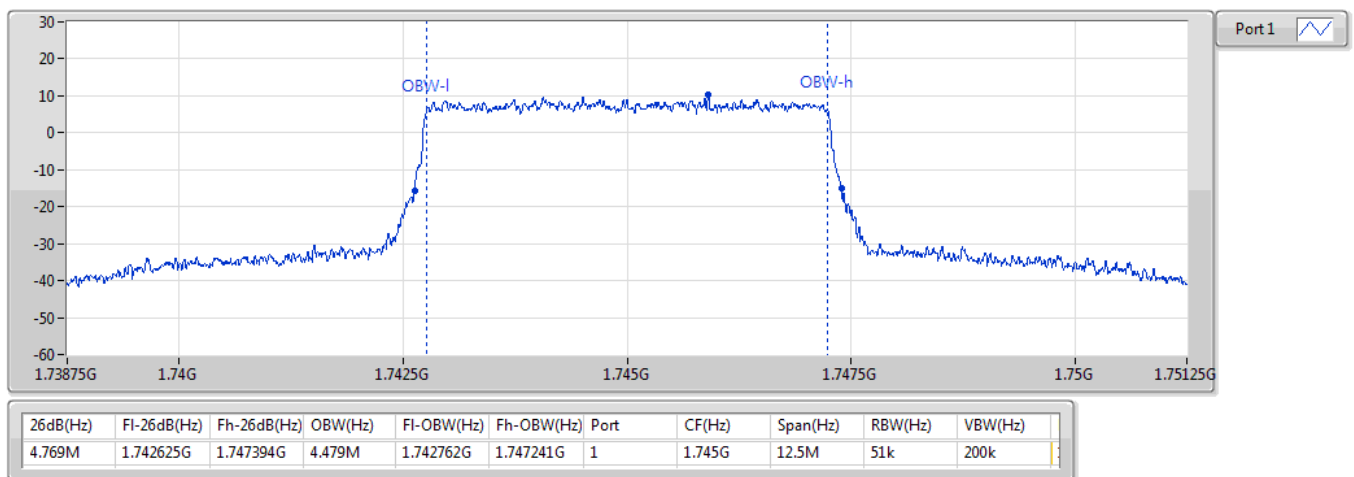
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Band 66_LTE_5MHz_Nss1,256QAM_1TX

EBW

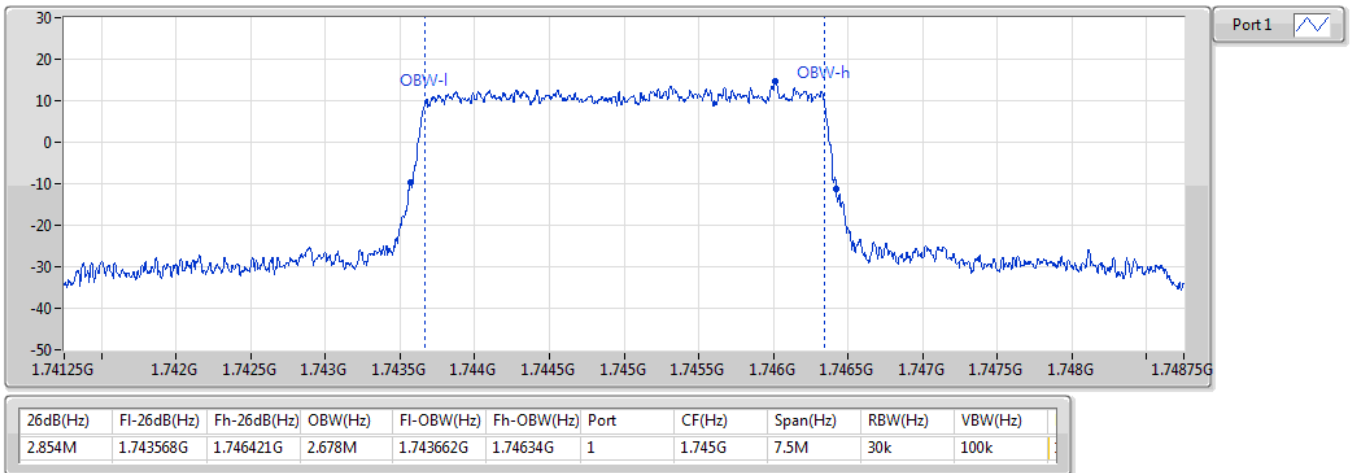
1745MHz_256QAM_RB 25,#RB 0



Band 66_LTE_3MHz_Nss1,QPSK_1TX

EBW

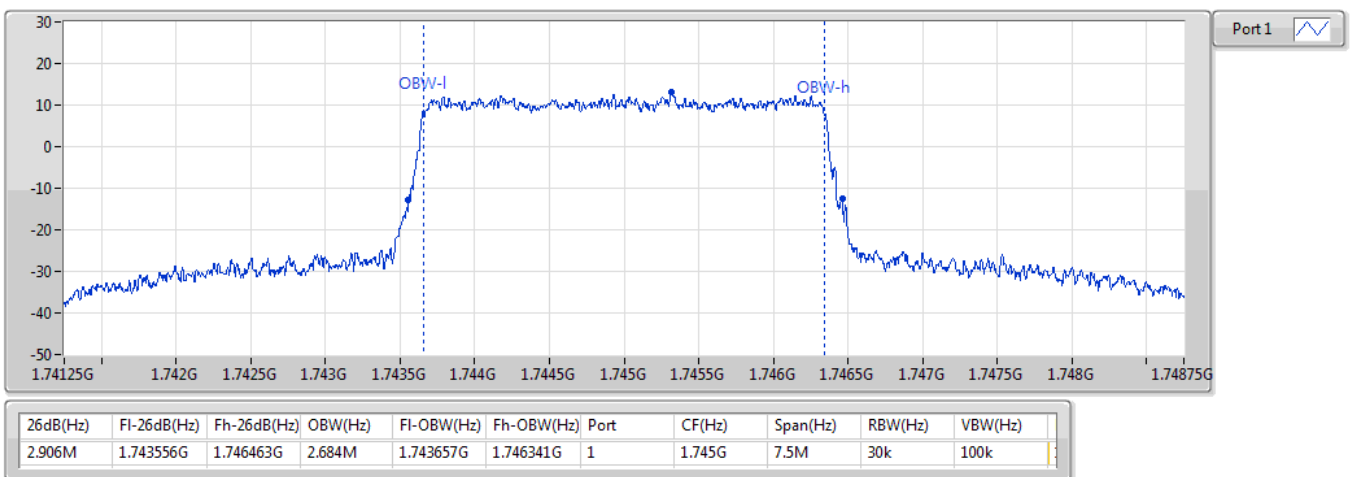
1745MHz_QPSK_RB 15,#RB 0



Band 66_LTE_3MHz_Nss1,16QAM_1TX

EBW

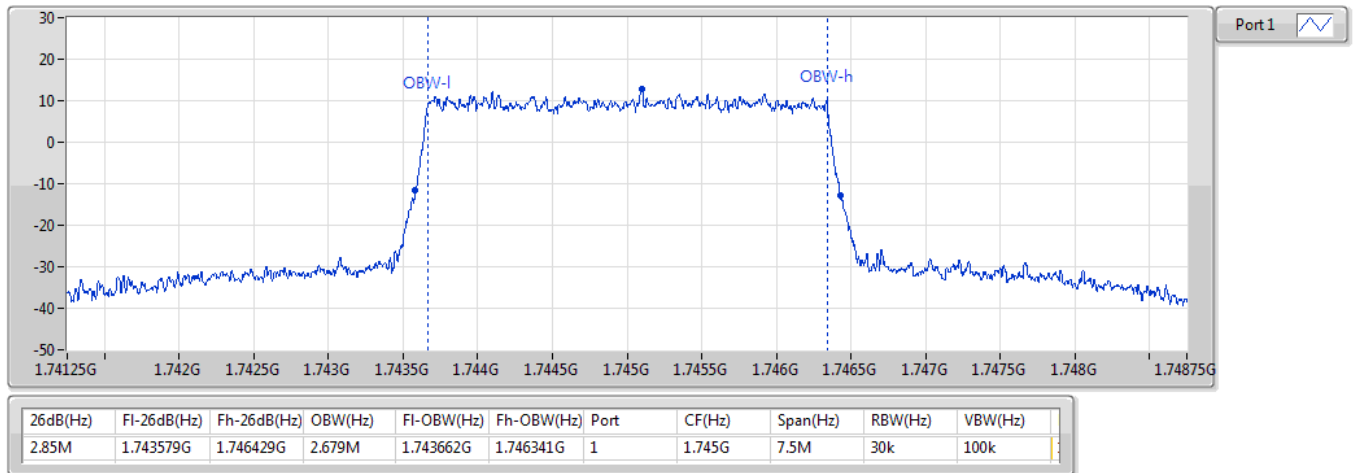
1745MHz_16QAM_RB 15,#RB 0



Band 66_LTE_3MHz_Nss1,64QAM_1TX

EBW

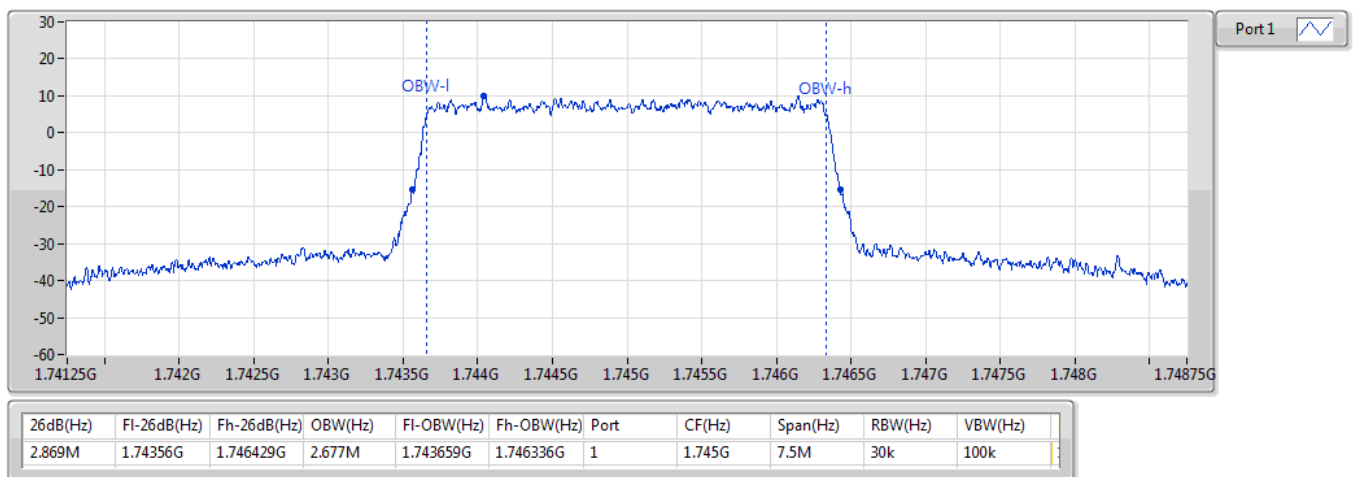
1745MHz_64QAM_RB 15,#RB 0



Band 66_LTE_3MHz_Nss1,256QAM_1TX

EBW

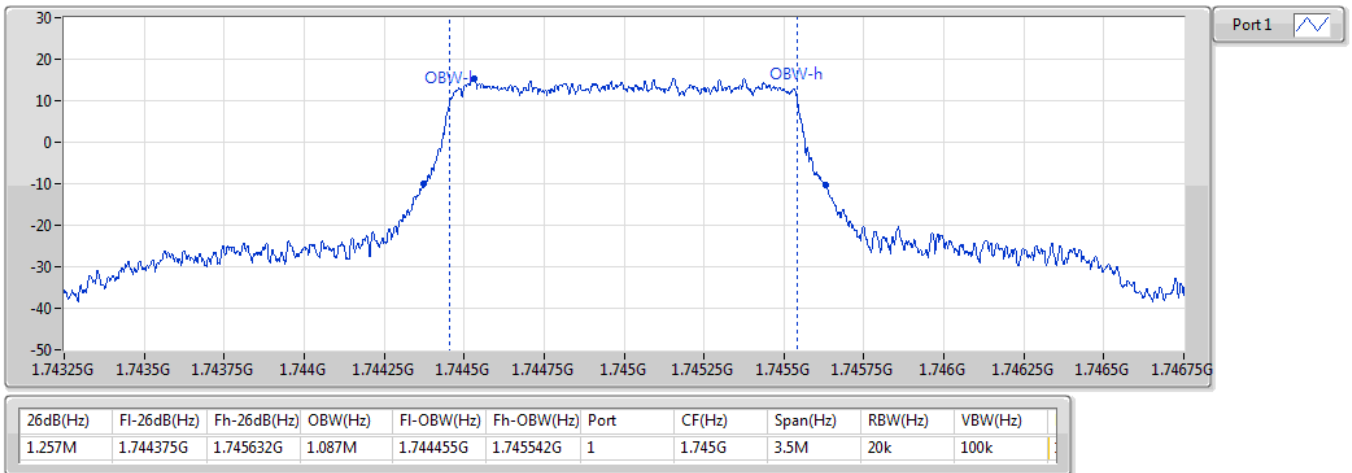
1745MHz_256QAM_RB 15,#RB 0



Band 66_LTE_1.4MHz_Nss1,QPSK_1TX

EBW

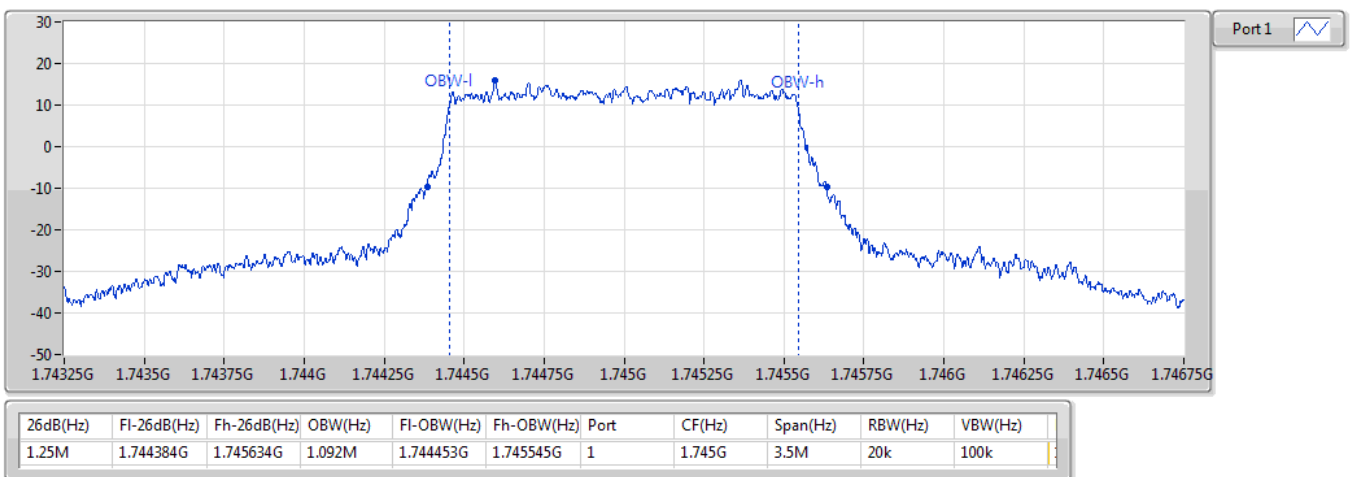
1745MHz_QPSK_RB 6,#RB 0



Band 66_LTE_1.4MHz_Nss1,16QAM_1TX

EBW

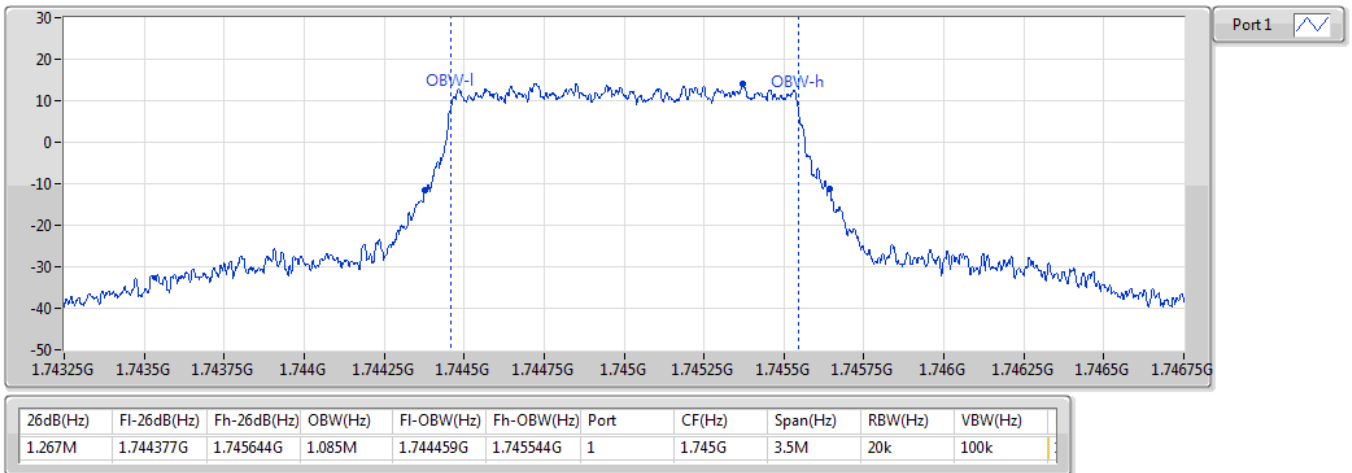
1745MHz_16QAM_RB 6,#RB 0



Band 66_LTE_1.4MHz_Nss1,64QAM_1TX

EBW

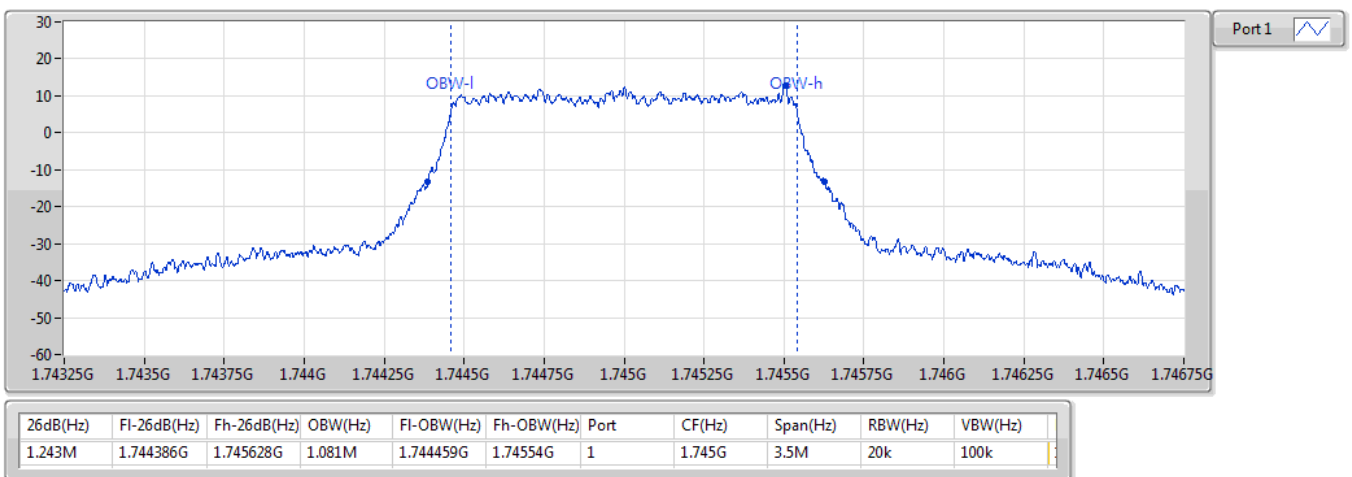
1745MHz_64QAM_RB 6,#RB 0



Band 66_LTE_1.4MHz_Nss1,256QAM_1TX

EBW

1745MHz_256QAM_RB 6,#RB 0



**Summary**

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 66	-	-	-	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	1745	13.00	5.44	1
LTE_20MHz_Nss1,16QAM_1TX	Pass	1745	13.00	6.18	1
LTE_20MHz_Nss1,64QAM_1TX	Pass	1745	13.00	6.38	1
LTE_20MHz_Nss1,256QAM_1TX	Pass	1745	13.00	6.44	1

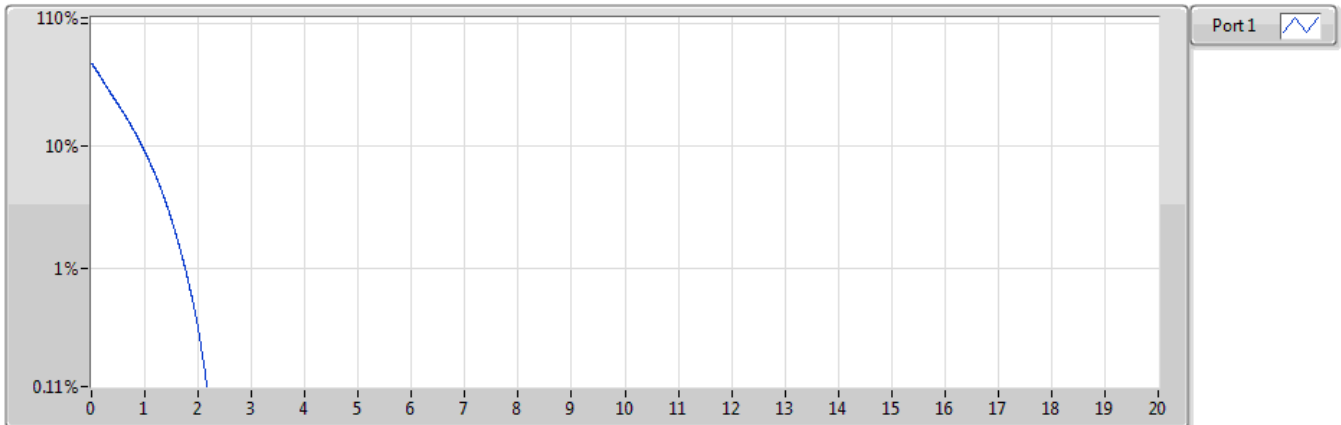
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 66_LTE_20MHz_Nss1_1TX	-	-	-	-	-
1745MHz_QPSK_RB 100,#RB 0	Pass	1745	13.00	5.44	1
1745MHz_16QAM_RB 100,#RB 0	Pass	1745	13.00	6.18	1
1745MHz_64QAM_RB 100,#RB 0	Pass	1745	13.00	6.38	1
1745MHz_256QAM_RB 100,#RB 0	Pass	1745	13.00	6.44	1

Band 66_LTE_20MHz_Nss1,QPSK_1TX

PAPR

1745MHz_QPSK_RB 100,#RB 0

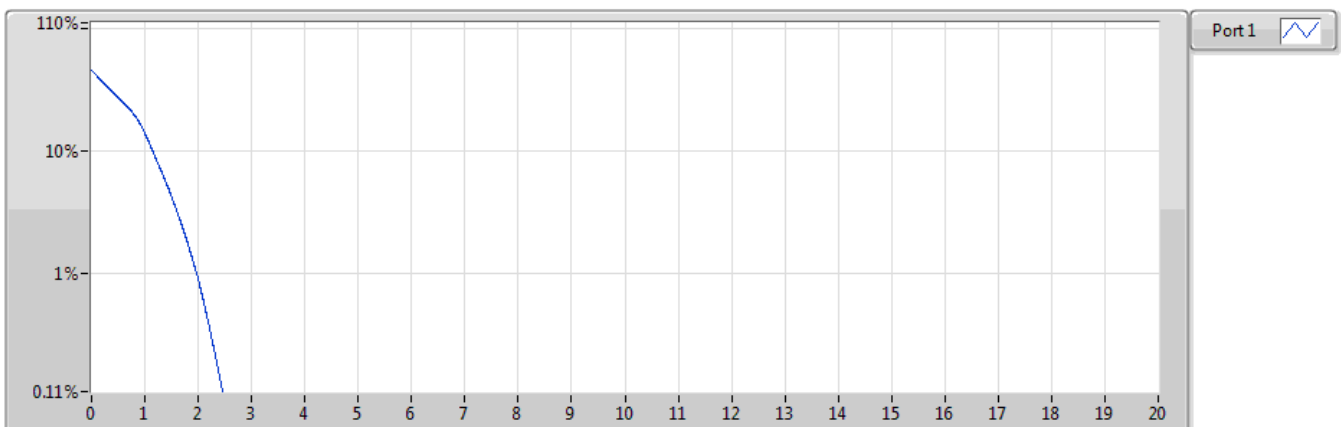


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
1745	20M	5.44	-7.56	13.00	1

Band 66_LTE_20MHz_Nss1,16QAM_1TX

PAPR

1745MHz_16QAM_RB 100,#RB 0

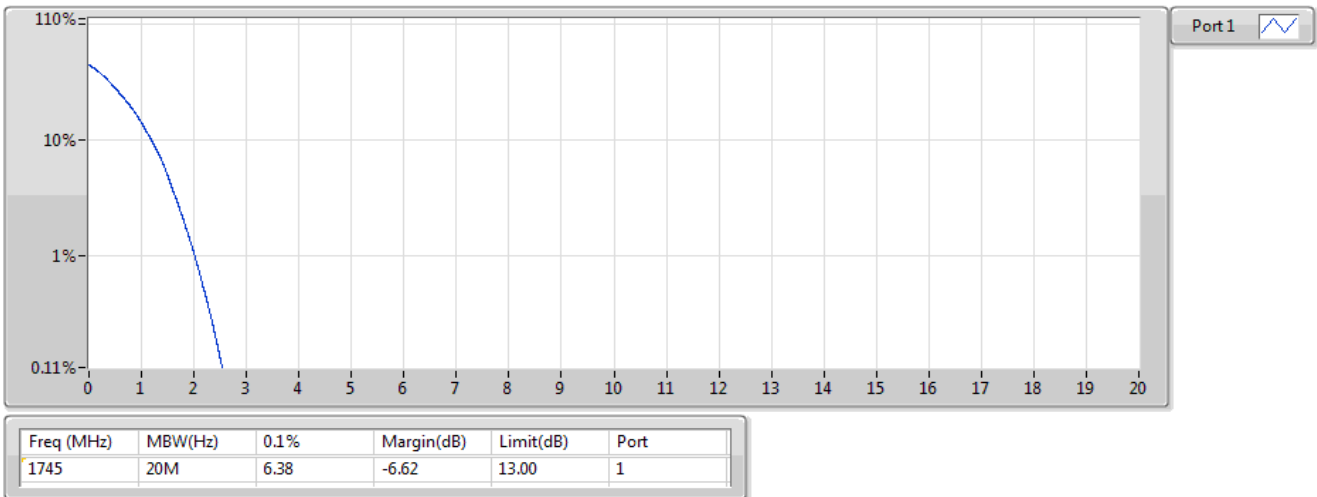


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
1745	20M	6.18	-6.82	13.00	1

Band 66_LTE_20MHz_Nss1,64QAM_1TX

PAPR

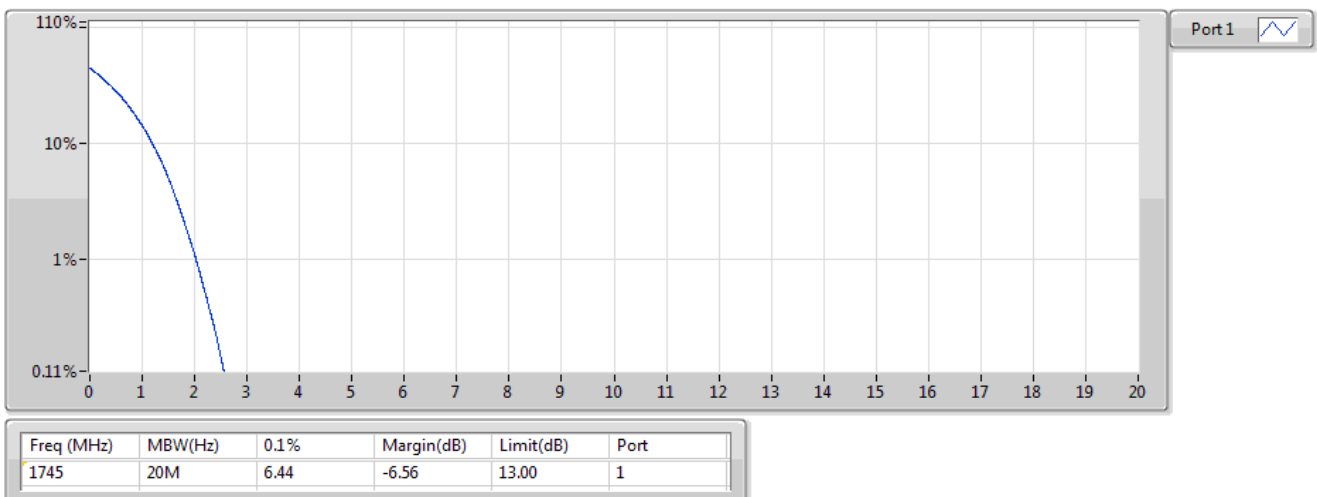
1745MHz_64QAM_RB 100,#RB 0



Band 66_LTE_20MHz_Nss1,256QAM_1TX

PAPR

1745MHz_256QAM_RB 100,#RB 0



Ref. Freq:	1745MHz	
Test Conditions	LTE Band 66(QPSK) / Middle channel	
Temperature (°C)	Deviation (ppm)	Limit ^{Note 1}
		Result
T20°C Vmax	0.01	PASS
T20°C Vmin	0.01	
T70°C Vnom	0.03	
T60°C Vnom	0.02	
T50°C Vnom	0.03	
T40°C Vnom	0.02	
T30°C Vnom	0.01	
T20°C Vnom	0.01	
T10°C Vnom	0.01	
T0°C Vnom	0.01	
T-10°C Vnom	0.02	
T-20°C Vnom	0.02	
T-30°C Vnom	0.02	

Note:

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