

FCC Test Report

FCC ID : 2AQYEFMP177
Equipment : Mobile Phone
Model No. : F-41A
Brand Name : FUJITSU
Applicant : FUJITSU CONNECTED TECHNOLOGIES Ltd.
Address : Chuorinkan 7-10-1 Yamato, Kanagawa
242-0007, Japan.
Standard : 47 CFR FCC Part 22 Subpart H
Received Date : Feb. 01, 2020
Tested Date : Feb. 01 ~ Feb. 11, 2020

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

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FG8D1403-01P22	Rev. 01	Initial issue	Mar. 13, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 22.913(a)(5)	Effective Radiated Power	Power[dBm]: GSM: 26.18 WCDMA: 16.88 LTE: 17.00	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

Product Name	Mobile Phone
Brand Name	FUJITSU
Model Name	F-41A
IMEI Code	353531110004089 / 353531110004105
H/W Version	v1.2.0
S/W Version	R022.1e

1.1.2 Specification of the Equipment under Test (EUT)

Operating Frequency	GSM 850: 824.2 MHz ~ 848.8 MHz WCDMA V: 826.4 MHz ~ 846.6 MHz LTE Band 5: Channel Bandwidth: 1.4MHz: 824.7 MHz ~ 848.3 MHz Channel Bandwidth: 3MHz: 825.5 MHz ~ 847.5 MHz Channel Bandwidth: 5MHz: 826.5 MHz ~ 846.5 MHz Channel Bandwidth: 10MHz: 829 MHz ~ 844 MHz
Modulation	GSM / GPRS: GMSK WCDMA / HSDPA / HSUPA: BPSK (Uplink) LTE: QPSK, 16QAM (Uplink)
Multislot Class	33 for GPRS
Duplex Mode	FDD
Release Version	WCDMA: R9 LTE: 10
UE Category	WCDMA: Cat. 10 / Cat. 6 LTE: Cat. 4

1.1.3 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)	Remark
1	Monopole	No	-4.1	---

1.1.4 EUT Operational Condition

Supply Voltage	3.8Vdc from battery: 9Vdc, 1.5A from adapter (No bundle, support unit only)		
Operational Climatic	<input checked="" type="checkbox"/> Tnom (20°C)	<input checked="" type="checkbox"/> Tmax (55°C)	<input checked="" type="checkbox"/> Tmin (-10°C)

1.1.5 Accessories

No.	Equipment	Description
1	Battery	Brand: FUJITSU CONNECTED TECHNOLOGIES LIMITED Model Name: CA54310-0074 Power Rating: 3.8Vdc, 2,780mAh, 10.6Wh

1.1.6 Maximum ERP and Emission Designator

Mode	Modulation	Maximum ERP (W)	Emission Designator
GSM 850	GMSK	0.415	248KGXW
WCDMA V	BPSK	0.04875	4M12F9W
LTE Band 5, CB: 1.4MHz	QPSK	0.04898	1M08G7D
LTE Band 5, CB: 1.4MHz	16QAM	0.03945	1M08W7D
LTE Band 5, CB: 3MHz	QPSK	0.04764	2M68G7D
LTE Band 5, CB: 3MHz	16QAM	0.03622	2M68W7D
LTE Band 5, CB: 5MHz	QPSK	0.04955	4M46G7D
LTE Band 5, CB: 5MHz	16QAM	0.03589	4M47W7D
LTE Band 5, CB: 10MHz	QPSK	0.05012	8M92G7D
LTE Band 5, CB: 10MHz	16QAM	0.03802	8M91W7D

1.1.7 Operating Channel List

GSM & GPRS		
	Channel	Frequency (MHz)
Low	128	824.2
Middle	189	836.4
High	251	848.8

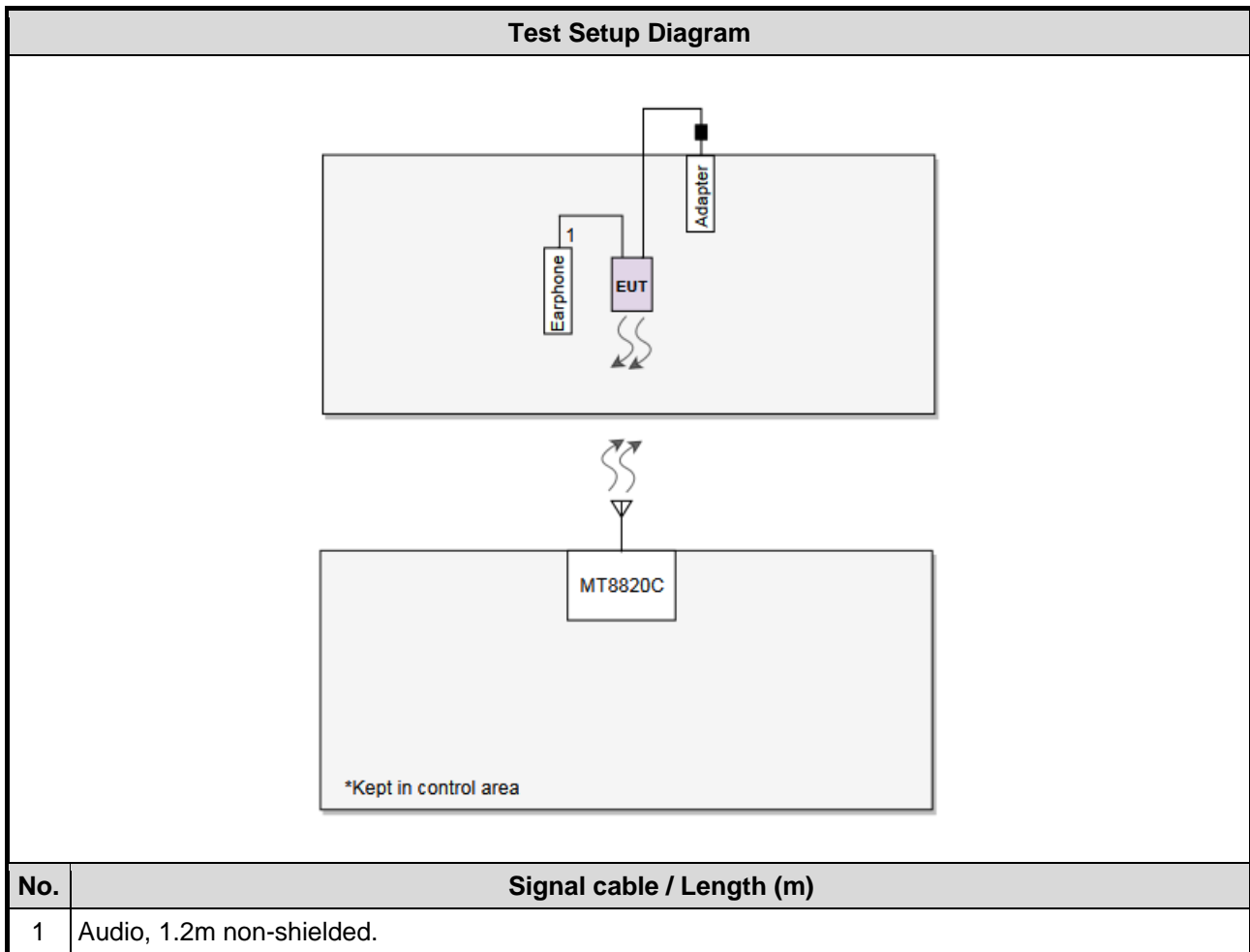
WCDMA V		
Channel Location	Channel	Frequency (MHz)
Low	4132	826.4
Middle	4182	836.4
High	4233	846.6

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

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	S/N	Remarks
1	Earphone	APPLE	MD827FE/A	6	---
2	Adapter	NTT docomo	AC Adapter 06	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 12, 2019	Jul. 11, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980225	Jul. 09, 2019	Jul. 08, 2020
Preamplifier	Agilent	83017A	MY39501308	Oct. 08, 2019	Oct. 07, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF Cable	EMC	EMC104-SM-SM-80 00	181106	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 07, 2019	Oct. 06, 2020
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 07, 2019	Oct. 06, 2020
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 07, 2019	Oct. 06, 2020
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Oct. 07, 2019	Oct. 06, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 17, 2019	Apr. 16, 2020
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 12, 2019	Dec. 11, 2020
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Apr. 12, 2019	Apr. 11, 2020
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 02, 2019	Dec. 01, 2020
Measurement Software	Sporton	SENSE-FCC_2G-4G	V5.10.5	NA	NA

Note: Calibration Interval of instruments listed above is one year.

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards.

47 CFR FCC Part 22 Subpart H

ANSI C63.4-2014

ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. 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	±1×10 ⁻⁹
Conducted emission	±2.715 dB
Radiated emission ≤ 1GHz	±3.41 dB
Radiated emission > 1GHz	±4.59 dB
Temperature	±0.4 °C

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	21-22°C / 68%	Akun Chung
RF Conducted	TH01-WS	18-24°C / 60-66%	Aska Huang

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

2.2 The Worst Test Modes and Channel Details

GSM 850 / WCDMA V		
Test item	Mode	Test Frequency (MHz)
Effective Radiated Power	GSM WCDMA_RMC 12.2K	824.2 / 836.4 / 848.8 826.4 / 836.4 / 846.6
Radiated Emissions ≤ 1GHz	GSM WCDMA_RMC 12.2K	836.4 836.4
Radiated Emissions > 1GHz	GSM WCDMA_RMC 12.2K	824.2 / 836.4 / 848.8 826.4 / 836.4 / 846.6
Conducted Emissions	GSM WCDMA_RMC 12.2K	824.2 / 836.4 / 848.8 826.4 / 836.4 / 846.6
Band Edge	GSM WCDMA_RMC 12.2K	824.2 / 848.8 826.4 / 846.6
Occupied Bandwidth	GSM WCDMA_RMC 12.2K	824.2 / 836.4 / 848.8 826.4 / 836.4 / 846.6
Peak to Average Ratio	GSM WCDMA_RMC 12.2K	824.2 / 836.4 / 848.8 826.4 / 836.4 / 846.6
Frequency Stability	GSM WCDMA_RMC 12.2K	836.4 836.4
NOTE:		
1. 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.		

LTE Band 5			
Test item	Channel Bandwidths	Modulation	Test Frequency (MHz)
Effective Radiated Power	1.4 MHz	QPSK / 16QAM	824.7 / 836.5 / 848.3
Conducted Emissions	3 MHz	QPSK / 16QAM	825.5 / 836.5 / 847.5
Occupied Bandwidth	5 MHz	QPSK / 16QAM	826.5 / 836.5 / 846.5
Peak to Average Ratio	10 MHz	QPSK / 16QAM	829.0 / 836.5 / 844.0
Radiated Emission ≤ 1GHz	1.4 MHz	QPSK	836.5
	3 MHz	QPSK	836.5
	5 MHz	QPSK	836.5
	10 MHz	QPSK	836.5
Radiated Emission > 1GHz	1.4 MHz	QPSK	824.7 / 836.5 / 848.3
	3 MHz	QPSK	825.5 / 836.5 / 847.5
	5 MHz	QPSK	826.5 / 836.5 / 846.5
	10 MHz	QPSK	829.0 / 836.5 / 844.0
Band Edge	1.4 MHz	QPSK / 16QAM	824.7 / 848.3
	3 MHz	QPSK / 16QAM	825.5 / 847.5
	5 MHz	QPSK / 16QAM	826.5 / 846.5
	10 MHz	QPSK / 16QAM	829.0 / 844.0
Frequency Stability	1.4 MHz	QPSK	836.5
	3 MHz	QPSK	836.5
	5 MHz	QPSK	836.5
	10 MHz	QPSK	836.5

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.

3 Test Results

3.1 Effective Radiated Power

3.1.1 Limit of Effective Radiated Power

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

3.1.2 Test Procedures

For E.R.P measurement

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

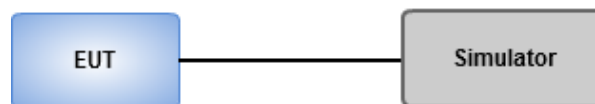
1. $EIRP = P_T + G_T - L_C$
 P_T = transmitter output power, in dBm.
 G_T = gain of the transmitting antenna, in dBi (EIRP).
 L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.
2. $ERP = EIRP - 2.15 \text{ dB}$.

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

Conducted Power Measurement



3.1.4 Test Result of Conducted Output Power (dBm)

Band		GSM 850		
Channel		128	189	251
Frequency (MHz)		824.2	836.4	848.8
GSM 1 Tx slot		32.21	32.43	32.17
GPRS 1 Tx slot		32.30	32.35	32.12
GPRS 2 Tx slots		30.38	30.43	30.58
GPRS 3 Tx slots		28.72	28.84	28.64
GPRS 4 Tx slots		27.05	27.64	27.34
DTM Multi-slot class 5	GSM 1 Tx slot	30.20	30.30	30.43
	GPRS 1 Tx slot	30.30	30.34	30.48
DTM Multi-slot class 9	GSM 1 Tx slot	30.24	30.34	30.55
	GPRS 1 Tx slot	30.34	30.38	30.51
DTM Multi-slot class 11	GSM 1 Tx slot	28.68	28.80	28.44
	GPRS 2 Tx slots	28.53	28.74	28.51

Band		WCDMA V		
Channel		4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
AMR 12.2Kbps		23.03	23.09	23.08
RMC 12.2Kbps		23.08	23.13	23.12
HSDPA Subtest-1		22.16	22.23	22.28
HSDPA Subtest-2		22.28	22.34	22.42
HSDPA Subtest-3		21.78	21.84	21.91
HSDPA Subtest-4		21.78	21.85	21.92
HSUPA Subtest-1		22.26	22.25	22.29
HSUPA Subtest-2		20.23	20.32	20.27
HSUPA Subtest-3		21.25	21.34	21.29
HSUPA Subtest-4		20.24	20.30	20.36
HSUPA Subtest-5		22.20	22.30	22.40

Band / Channel Bandwidth			LTE Band 5 / CB: 1.4MHz		
Channel			20407	20525	20643
Frequency (MHz)			824.7	836.5	848.3
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	22.64	22.87	22.96
	1	3	22.98	22.97	22.97
	1	5	22.87	22.87	22.88
	3	0	22.99	23.00	23.08
	3	1	22.92	23.15	22.91
	3	3	22.97	23.10	23.13
	6	0	21.84	21.96	21.94
16QAM	1	0	21.72	21.80	21.83
	1	3	21.88	22.08	22.21
	1	5	21.72	21.82	22.19
	3	0	21.89	21.93	21.84
	3	1	21.89	21.97	21.94
	3	3	21.97	21.97	22.15
	6	0	21.01	21.01	20.97

Band / Channel Bandwidth			LTE Band 5 / CB: 3MHz		
Channel			20415	20525	20635
Frequency (MHz)			825.5	836.5	847.5
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	22.66	22.59	23.03
	1	8	22.71	22.80	22.72
	1	14	22.75	22.84	22.81
	8	0	21.90	22.10	22.16
	8	4	22.01	22.08	22.07
	8	7	21.94	22.03	22.08
	15	0	21.90	22.00	21.96
16QAM	1	0	21.70	21.83	21.84
	1	8	21.60	21.76	21.71
	1	14	21.74	21.81	21.82
	8	0	20.96	20.66	21.02
	8	4	20.87	20.95	21.04
	8	7	21.18	21.09	21.15
	15	0	20.93	20.75	20.95

Band / Channel Bandwidth			LTE Band 5 / CB: 5MHz		
Channel			20425	20525	20625
Frequency (MHz)			826.5	836.5	846.5
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	22.58	22.81	22.60
	1	12	23.19	23.20	23.12
	1	24	22.46	22.77	22.54
	12	0	21.93	22.00	22.02
	12	7	21.99	22.06	22.10
	12	13	21.93	21.99	22.03
	25	0	21.93	22.04	22.00
16QAM	1	0	21.68	21.67	21.73
	1	12	21.64	21.80	21.71
	1	24	21.65	21.79	21.66
	12	0	20.95	20.72	20.94
	12	7	21.12	21.17	21.02
	12	13	20.96	21.00	21.04
	25	0	20.95	21.05	21.21

Band / Channel Bandwidth			LTE Band 5 / CB: 10MHz		
Channel			20450	20525	20600
Frequency (MHz)			829	836.5	844
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	22.55	22.54	22.65
	1	25	23.05	23.25	23.15
	1	49	22.54	22.85	22.64
	25	0	21.93	21.97	22.08
	25	12	21.96	22.13	22.09
	25	25	22.04	22.14	22.08
	50	0	21.98	22.01	22.08
16QAM	1	0	21.75	21.73	21.77
	1	25	21.92	22.05	22.03
	1	49	21.71	21.86	21.81
	25	0	20.94	20.98	21.33
	25	12	20.98	21.29	21.35
	25	25	21.02	21.15	21.29
	50	0	20.78	21.03	21.03

3.1.5 Test Result of Effective Radiated Power (dBm)

Summary

Mode	Power (dBm)	Power (W)	ERP (dBm)	ERP (W)
850	-	-	-	-
GSM	32.43	1.750	26.18	0.415

Result

Mode	Result	DG (dBi)	EIRP (dBm)	ERP (dBm)	ERP (W)	ERP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
850_GSM	-	-	-	-	-	-	-	-	-	-
824.2MHz	Pass	-4.1	28.11	25.96	0.394	7	32.21	1.663	Inf	32.21
836.4MHz	Pass	-4.1	28.33	26.18	0.415	7	32.43	1.750	Inf	32.43
848.8MHz	Pass	-4.1	28.07	25.92	0.391	7	32.17	1.648	Inf	32.17

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

Summary

Mode	Power (dBm)	Power (W)	EIRP (dBm)	ERP (dBm)	ERP (W)
Band 5	-	-	-	-	-
WCDMA_RMC 12.2K	23.13	0.206	19.03	16.88	0.04875

Result

Mode	Result	DG (dBi)	EIRP (dBm)	ERP (dBm)	ERP (W)	ERP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
Band 5_WCDMA_RMC 12.2K	-	-	-	-	-	-	-	-	-	-
826.4MHz	Pass	-4.10	18.98	16.83	0.04819	7	23.08	0.203	Inf	23.08
836.4MHz	Pass	-4.10	19.03	16.88	0.04875	7	23.13	0.206	Inf	23.13
846.6MHz	Pass	-4.10	19.02	16.87	0.04864	7	23.12	0.205	Inf	23.12

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

Summary

Mode	Power (dBm)	Power (W)	ERP (dBm)	ERP (W)
Band 5	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	23.15	0.207	16.90	0.04898
LTE_1.4MHz_Nss1,16QAM_1TX	22.21	0.166	15.96	0.03945
LTE_3MHz_Nss1,QPSK_1TX	23.03	0.201	16.78	0.04764
LTE_3MHz_Nss1,16QAM_1TX	21.84	0.153	15.59	0.03622
LTE_5MHz_Nss1,QPSK_1TX	23.20	0.209	16.95	0.04955
LTE_5MHz_Nss1,16QAM_1TX	21.80	0.151	15.55	0.03589
LTE_10MHz_Nss1,QPSK_1TX	23.25	0.211	17.00	0.05012
LTE_10MHz_Nss1,16QAM_1TX	22.05	0.160	15.80	0.03802

Result

Mode	Result	DG (dBi)	EIRP (dBm)	ERP (dBm)	ERP (W)	ERP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
Band 5_LTE_1.4MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-
824.7MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.54	16.39	0.04355	7	22.64	0.184	Inf	22.64
824.7MHz_QPSK_RB 1,#RB 3	Pass	-4.10	18.88	16.73	0.04710	7	22.98	0.199	Inf	22.98
824.7MHz_QPSK_RB 1,#RB 5	Pass	-4.10	18.77	16.62	0.04592	7	22.87	0.194	Inf	22.87
824.7MHz_QPSK_RB 3,#RB 0	Pass	-4.10	18.89	16.74	0.04721	7	22.99	0.199	Inf	22.99
824.7MHz_QPSK_RB 3,#RB 1	Pass	-4.10	18.82	16.67	0.04645	7	22.92	0.196	Inf	22.92
824.7MHz_QPSK_RB 3,#RB 3	Pass	-4.10	18.87	16.72	0.04699	7	22.97	0.198	Inf	22.97
824.7MHz_QPSK_RB 6,#RB 0	Pass	-4.10	17.74	15.59	0.03622	7	21.84	0.153	Inf	21.84
836.5MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.77	16.62	0.04592	7	22.87	0.194	Inf	22.87
836.5MHz_QPSK_RB 1,#RB 3	Pass	-4.10	18.87	16.72	0.04699	7	22.97	0.198	Inf	22.97
836.5MHz_QPSK_RB 1,#RB 5	Pass	-4.10	18.77	16.62	0.04592	7	22.87	0.194	Inf	22.87
836.5MHz_QPSK_RB 3,#RB 0	Pass	-4.10	18.90	16.75	0.04732	7	23.00	0.200	Inf	23
836.5MHz_QPSK_RB 3,#RB 1	Pass	-4.10	19.05	16.90	0.04898	7	23.15	0.207	Inf	23.15
836.5MHz_QPSK_RB 3,#RB 3	Pass	-4.10	19.00	16.85	0.04842	7	23.10	0.204	Inf	23.1
836.5MHz_QPSK_RB 6,#RB 0	Pass	-4.10	17.86	15.71	0.03724	7	21.96	0.157	Inf	21.96
848.3MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.86	16.71	0.04688	7	22.96	0.198	Inf	22.96
848.3MHz_QPSK_RB 1,#RB 3	Pass	-4.10	18.87	16.72	0.04699	7	22.97	0.198	Inf	22.97
848.3MHz_QPSK_RB 1,#RB 5	Pass	-4.10	18.78	16.63	0.04603	7	22.88	0.194	Inf	22.88
848.3MHz_QPSK_RB 3,#RB 0	Pass	-4.10	18.98	16.83	0.04819	7	23.08	0.203	Inf	23.08
848.3MHz_QPSK_RB 3,#RB 1	Pass	-4.10	18.81	16.66	0.04634	7	22.91	0.195	Inf	22.91
848.3MHz_QPSK_RB 3,#RB 3	Pass	-4.10	19.03	16.88	0.04875	7	23.13	0.206	Inf	23.13
848.3MHz_QPSK_RB 6,#RB 0	Pass	-4.10	17.84	15.69	0.03707	7	21.94	0.156	Inf	21.94
824.7MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.62	15.47	0.03524	7	21.72	0.149	Inf	21.72

Mode	Result	DG (dBi)	EIRP (dBm)	ERP (dBm)	ERP (W)	ERP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
824.7MHz_16QAM_RB 1,#RB 3	Pass	-4.10	17.78	15.63	0.03656	7	21.88	0.154	Inf	21.88
824.7MHz_16QAM_RB 1,#RB 5	Pass	-4.10	17.62	15.47	0.03524	7	21.72	0.149	Inf	21.72
824.7MHz_16QAM_RB 3,#RB 0	Pass	-4.10	17.79	15.64	0.03664	7	21.89	0.155	Inf	21.89
824.7MHz_16QAM_RB 3,#RB 1	Pass	-4.10	17.79	15.64	0.03664	7	21.89	0.155	Inf	21.89
824.7MHz_16QAM_RB 3,#RB 3	Pass	-4.10	17.87	15.72	0.03733	7	21.97	0.157	Inf	21.97
824.7MHz_16QAM_RB 6,#RB 0	Pass	-4.10	16.91	14.76	0.02992	7	21.01	0.126	Inf	21.01
836.5MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.70	15.55	0.03589	7	21.80	0.151	Inf	21.8
836.5MHz_16QAM_RB 1,#RB 3	Pass	-4.10	17.98	15.83	0.03828	7	22.08	0.161	Inf	22.08
836.5MHz_16QAM_RB 1,#RB 5	Pass	-4.10	17.72	15.57	0.03606	7	21.82	0.152	Inf	21.82
836.5MHz_16QAM_RB 3,#RB 0	Pass	-4.10	17.83	15.68	0.03698	7	21.93	0.156	Inf	21.93
836.5MHz_16QAM_RB 3,#RB 1	Pass	-4.10	17.87	15.72	0.03733	7	21.97	0.157	Inf	21.97
836.5MHz_16QAM_RB 3,#RB 3	Pass	-4.10	17.87	15.72	0.03733	7	21.97	0.157	Inf	21.97
836.5MHz_16QAM_RB 6,#RB 0	Pass	-4.10	16.91	14.76	0.02992	7	21.01	0.126	Inf	21.01
848.3MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.73	15.58	0.03614	7	21.83	0.152	Inf	21.83
848.3MHz_16QAM_RB 1,#RB 3	Pass	-4.10	18.11	15.96	0.03945	7	22.21	0.166	Inf	22.21
848.3MHz_16QAM_RB 1,#RB 5	Pass	-4.10	18.09	15.94	0.03926	7	22.19	0.166	Inf	22.19
848.3MHz_16QAM_RB 3,#RB 0	Pass	-4.10	17.74	15.59	0.03622	7	21.84	0.153	Inf	21.84
848.3MHz_16QAM_RB 3,#RB 1	Pass	-4.10	17.84	15.69	0.03707	7	21.94	0.156	Inf	21.94
848.3MHz_16QAM_RB 3,#RB 3	Pass	-4.10	18.05	15.90	0.03890	7	22.15	0.164	Inf	22.15
848.3MHz_16QAM_RB 6,#RB 0	Pass	-4.10	16.87	14.72	0.02965	7	20.97	0.125	Inf	20.97
Band 5_LTE_3MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-
825.5MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.56	16.41	0.04375	7	22.66	0.185	Inf	22.66
825.5MHz_QPSK_RB 1,#RB 8	Pass	-4.10	18.61	16.46	0.04426	7	22.71	0.187	Inf	22.71
825.5MHz_QPSK_RB 1,#RB 14	Pass	-4.10	18.65	16.50	0.04467	7	22.75	0.188	Inf	22.75
825.5MHz_QPSK_RB 8,#RB 0	Pass	-4.10	17.80	15.65	0.03673	7	21.90	0.155	Inf	21.9
825.5MHz_QPSK_RB 8,#RB 4	Pass	-4.10	17.91	15.76	0.03767	7	22.01	0.159	Inf	22.01
825.5MHz_QPSK_RB 8,#RB 7	Pass	-4.10	17.84	15.69	0.03707	7	21.94	0.156	Inf	21.94
825.5MHz_QPSK_RB 15,#RB 0	Pass	-4.10	17.80	15.65	0.03673	7	21.90	0.155	Inf	21.9
836.5MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.49	16.34	0.04305	7	22.59	0.182	Inf	22.59
836.5MHz_QPSK_RB 1,#RB 8	Pass	-4.10	18.70	16.55	0.04519	7	22.80	0.191	Inf	22.8
836.5MHz_QPSK_RB 1,#RB 14	Pass	-4.10	18.74	16.59	0.04560	7	22.84	0.192	Inf	22.84
836.5MHz_QPSK_RB 8,#RB 0	Pass	-4.10	18.00	15.85	0.03846	7	22.10	0.162	Inf	22.1
836.5MHz_QPSK_RB 8,#RB 4	Pass	-4.10	17.98	15.83	0.03828	7	22.08	0.161	Inf	22.08
836.5MHz_QPSK_RB 8,#RB 7	Pass	-4.10	17.93	15.78	0.03784	7	22.03	0.160	Inf	22.03
836.5MHz_QPSK_RB 15,#RB 0	Pass	-4.10	17.90	15.75	0.03758	7	22.00	0.158	Inf	22
847.5MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.93	16.78	0.04764	7	23.03	0.201	Inf	23.03
847.5MHz_QPSK_RB 1,#RB 8	Pass	-4.10	18.62	16.47	0.04436	7	22.72	0.187	Inf	22.72
847.5MHz_QPSK_RB 1,#RB 14	Pass	-4.10	18.71	16.56	0.04529	7	22.81	0.191	Inf	22.81

Mode	Result	DG (dBi)	EIRP (dBm)	ERP (dBm)	ERP (W)	ERP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
847.5MHz_QPSK_RB 8,#RB 0	Pass	-4.10	18.06	15.91	0.03899	7	22.16	0.164	Inf	22.16
847.5MHz_QPSK_RB 8,#RB 4	Pass	-4.10	17.97	15.82	0.03819	7	22.07	0.161	Inf	22.07
847.5MHz_QPSK_RB 8,#RB 7	Pass	-4.10	17.98	15.83	0.03828	7	22.08	0.161	Inf	22.08
847.5MHz_QPSK_RB 15,#RB 0	Pass	-4.10	17.86	15.71	0.03724	7	21.96	0.157	Inf	21.96
825.5MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.60	15.45	0.03508	7	21.70	0.148	Inf	21.7
825.5MHz_16QAM_RB 1,#RB 8	Pass	-4.10	17.50	15.35	0.03428	7	21.60	0.145	Inf	21.6
825.5MHz_16QAM_RB 1,#RB 14	Pass	-4.10	17.64	15.49	0.03540	7	21.74	0.149	Inf	21.74
825.5MHz_16QAM_RB 8,#RB 0	Pass	-4.10	16.86	14.71	0.02958	7	20.96	0.125	Inf	20.96
825.5MHz_16QAM_RB 8,#RB 4	Pass	-4.10	16.77	14.62	0.02897	7	20.87	0.122	Inf	20.87
825.5MHz_16QAM_RB 8,#RB 7	Pass	-4.10	17.08	14.93	0.03112	7	21.18	0.131	Inf	21.18
825.5MHz_16QAM_RB 15,#RB 0	Pass	-4.10	16.83	14.68	0.02938	7	20.93	0.124	Inf	20.93
836.5MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.73	15.58	0.03614	7	21.83	0.152	Inf	21.83
836.5MHz_16QAM_RB 1,#RB 8	Pass	-4.10	17.66	15.51	0.03556	7	21.76	0.150	Inf	21.76
836.5MHz_16QAM_RB 1,#RB 14	Pass	-4.10	17.71	15.56	0.03597	7	21.81	0.152	Inf	21.81
836.5MHz_16QAM_RB 8,#RB 0	Pass	-4.10	16.56	14.41	0.02761	7	20.66	0.116	Inf	20.66
836.5MHz_16QAM_RB 8,#RB 4	Pass	-4.10	16.85	14.70	0.02951	7	20.95	0.124	Inf	20.95
836.5MHz_16QAM_RB 8,#RB 7	Pass	-4.10	16.99	14.84	0.03048	7	21.09	0.129	Inf	21.09
836.5MHz_16QAM_RB 15,#RB 0	Pass	-4.10	16.65	14.50	0.02818	7	20.75	0.119	Inf	20.75
847.5MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.74	15.59	0.03622	7	21.84	0.153	Inf	21.84
847.5MHz_16QAM_RB 1,#RB 8	Pass	-4.10	17.61	15.46	0.03516	7	21.71	0.148	Inf	21.71
847.5MHz_16QAM_RB 1,#RB 14	Pass	-4.10	17.72	15.57	0.03606	7	21.82	0.152	Inf	21.82
847.5MHz_16QAM_RB 8,#RB 0	Pass	-4.10	16.92	14.77	0.02999	7	21.02	0.126	Inf	21.02
847.5MHz_16QAM_RB 8,#RB 4	Pass	-4.10	16.94	14.79	0.03013	7	21.04	0.127	Inf	21.04
847.5MHz_16QAM_RB 8,#RB 7	Pass	-4.10	17.05	14.90	0.03090	7	21.15	0.130	Inf	21.15
847.5MHz_16QAM_RB 15,#RB 0	Pass	-4.10	16.85	14.70	0.02951	7	20.95	0.124	Inf	20.95
Band 5_LTE_5MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-
826.5MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.48	16.33	0.04295	7	22.58	0.181	Inf	22.58
826.5MHz_QPSK_RB 1,#RB 12	Pass	-4.10	19.09	16.94	0.04943	7	23.19	0.208	Inf	23.19
826.5MHz_QPSK_RB 1,#RB 24	Pass	-4.10	18.36	16.21	0.04178	7	22.46	0.176	Inf	22.46
826.5MHz_QPSK_RB 12,#RB 0	Pass	-4.10	17.83	15.68	0.03698	7	21.93	0.156	Inf	21.93
826.5MHz_QPSK_RB 12,#RB 7	Pass	-4.10	17.89	15.74	0.03750	7	21.99	0.158	Inf	21.99
826.5MHz_QPSK_RB 12,#RB 13	Pass	-4.10	17.83	15.68	0.03698	7	21.93	0.156	Inf	21.93
826.5MHz_QPSK_RB 25,#RB 0	Pass	-4.10	17.83	15.68	0.03698	7	21.93	0.156	Inf	21.93
836.5MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.71	16.56	0.04529	7	22.81	0.191	Inf	22.81
836.5MHz_QPSK_RB 1,#RB 12	Pass	-4.10	19.10	16.95	0.04955	7	23.20	0.209	Inf	23.2
836.5MHz_QPSK_RB 1,#RB 24	Pass	-4.10	18.67	16.52	0.04487	7	22.77	0.189	Inf	22.77
836.5MHz_QPSK_RB 12,#RB 0	Pass	-4.10	17.90	15.75	0.03758	7	22.00	0.158	Inf	22
836.5MHz_QPSK_RB 12,#RB 7	Pass	-4.10	17.96	15.81	0.03811	7	22.06	0.161	Inf	22.06

Mode	Result	DG (dBi)	EIRP (dBm)	ERP (dBm)	ERP (W)	ERP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
836.5MHz_QPSK_RB 12,#RB 13	Pass	-4.10	17.89	15.74	0.03750	7	21.99	0.158	Inf	21.99
836.5MHz_QPSK_RB 25,#RB 0	Pass	-4.10	17.94	15.79	0.03793	7	22.04	0.160	Inf	22.04
846.5MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.50	16.35	0.04315	7	22.60	0.182	Inf	22.6
846.5MHz_QPSK_RB 1,#RB 12	Pass	-4.10	19.02	16.87	0.04864	7	23.12	0.205	Inf	23.12
846.5MHz_QPSK_RB 1,#RB 24	Pass	-4.10	18.44	16.29	0.04256	7	22.54	0.179	Inf	22.54
846.5MHz_QPSK_RB 12,#RB 0	Pass	-4.10	17.92	15.77	0.03776	7	22.02	0.159	Inf	22.02
846.5MHz_QPSK_RB 12,#RB 7	Pass	-4.10	18.00	15.85	0.03846	7	22.10	0.162	Inf	22.1
846.5MHz_QPSK_RB 12,#RB 13	Pass	-4.10	17.93	15.78	0.03784	7	22.03	0.160	Inf	22.03
846.5MHz_QPSK_RB 25,#RB 0	Pass	-4.10	17.90	15.75	0.03758	7	22.00	0.158	Inf	22
826.5MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.58	15.43	0.03491	7	21.68	0.147	Inf	21.68
826.5MHz_16QAM_RB 1,#RB 12	Pass	-4.10	17.54	15.39	0.03459	7	21.64	0.146	Inf	21.64
826.5MHz_16QAM_RB 1,#RB 24	Pass	-4.10	17.55	15.40	0.03467	7	21.65	0.146	Inf	21.65
826.5MHz_16QAM_RB 12,#RB 0	Pass	-4.10	16.85	14.70	0.02951	7	20.95	0.124	Inf	20.95
826.5MHz_16QAM_RB 12,#RB 7	Pass	-4.10	17.02	14.87	0.03069	7	21.12	0.129	Inf	21.12
826.5MHz_16QAM_RB 12,#RB 13	Pass	-4.10	16.86	14.71	0.02958	7	20.96	0.125	Inf	20.96
826.5MHz_16QAM_RB 25,#RB 0	Pass	-4.10	16.85	14.70	0.02951	7	20.95	0.124	Inf	20.95
836.5MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.57	15.42	0.03483	7	21.67	0.147	Inf	21.67
836.5MHz_16QAM_RB 1,#RB 12	Pass	-4.10	17.70	15.55	0.03589	7	21.80	0.151	Inf	21.8
836.5MHz_16QAM_RB 1,#RB 24	Pass	-4.10	17.69	15.54	0.03581	7	21.79	0.151	Inf	21.79
836.5MHz_16QAM_RB 12,#RB 0	Pass	-4.10	16.62	14.47	0.02799	7	20.72	0.118	Inf	20.72
836.5MHz_16QAM_RB 12,#RB 7	Pass	-4.10	17.07	14.92	0.03105	7	21.17	0.131	Inf	21.17
836.5MHz_16QAM_RB 12,#RB 13	Pass	-4.10	16.90	14.75	0.02985	7	21.00	0.126	Inf	21
836.5MHz_16QAM_RB 25,#RB 0	Pass	-4.10	16.95	14.80	0.03020	7	21.05	0.127	Inf	21.05
846.5MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.63	15.48	0.03532	7	21.73	0.149	Inf	21.73
846.5MHz_16QAM_RB 1,#RB 12	Pass	-4.10	17.61	15.46	0.03516	7	21.71	0.148	Inf	21.71
846.5MHz_16QAM_RB 1,#RB 24	Pass	-4.10	17.56	15.41	0.03475	7	21.66	0.147	Inf	21.66
846.5MHz_16QAM_RB 12,#RB 0	Pass	-4.10	16.84	14.69	0.02944	7	20.94	0.124	Inf	20.94
846.5MHz_16QAM_RB 12,#RB 7	Pass	-4.10	16.92	14.77	0.02999	7	21.02	0.126	Inf	21.02
846.5MHz_16QAM_RB 12,#RB 13	Pass	-4.10	16.94	14.79	0.03013	7	21.04	0.127	Inf	21.04
846.5MHz_16QAM_RB 25,#RB 0	Pass	-4.10	17.11	14.96	0.03133	7	21.21	0.132	Inf	21.21
Band 5_LTE_10MHz_Nss1_1TX	-	-	-	-	-	-	-	-	-	-
829MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.45	16.30	0.04266	7	22.55	0.180	Inf	22.55
829MHz_QPSK_RB 1,#RB 25	Pass	-4.10	18.95	16.80	0.04786	7	23.05	0.202	Inf	23.05
829MHz_QPSK_RB 1,#RB 49	Pass	-4.10	18.44	16.29	0.04256	7	22.54	0.179	Inf	22.54
829MHz_QPSK_RB 25,#RB 0	Pass	-4.10	17.83	15.68	0.03698	7	21.93	0.156	Inf	21.93
829MHz_QPSK_RB 25,#RB 12	Pass	-4.10	17.86	15.71	0.03724	7	21.96	0.157	Inf	21.96
829MHz_QPSK_RB 25,#RB 25	Pass	-4.10	17.94	15.79	0.03793	7	22.04	0.160	Inf	22.04
829MHz_QPSK_RB 50,#RB 0	Pass	-4.10	17.88	15.73	0.03741	7	21.98	0.158	Inf	21.98

Mode	Result	DG (dBi)	EIRP (dBm)	ERP (dBm)	ERP (W)	ERP Lim. (W)	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
836.5MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.44	16.29	0.04256	7	22.54	0.179	Inf	22.54
836.5MHz_QPSK_RB 1,#RB 25	Pass	-4.10	19.15	17.00	0.05012	7	23.25	0.211	Inf	23.25
836.5MHz_QPSK_RB 1,#RB 49	Pass	-4.10	18.75	16.60	0.04571	7	22.85	0.193	Inf	22.85
836.5MHz_QPSK_RB 25,#RB 0	Pass	-4.10	17.87	15.72	0.03733	7	21.97	0.157	Inf	21.97
836.5MHz_QPSK_RB 25,#RB 12	Pass	-4.10	18.03	15.88	0.03873	7	22.13	0.163	Inf	22.13
836.5MHz_QPSK_RB 25,#RB 25	Pass	-4.10	18.04	15.89	0.03882	7	22.14	0.164	Inf	22.14
836.5MHz_QPSK_RB 50,#RB 0	Pass	-4.10	17.91	15.76	0.03767	7	22.01	0.159	Inf	22.01
844MHz_QPSK_RB 1,#RB 0	Pass	-4.10	18.55	16.40	0.04365	7	22.65	0.184	Inf	22.65
844MHz_QPSK_RB 1,#RB 25	Pass	-4.10	19.05	16.90	0.04898	7	23.15	0.207	Inf	23.15
844MHz_QPSK_RB 1,#RB 49	Pass	-4.10	18.54	16.39	0.04355	7	22.64	0.184	Inf	22.64
844MHz_QPSK_RB 25,#RB 0	Pass	-4.10	17.98	15.83	0.03828	7	22.08	0.161	Inf	22.08
844MHz_QPSK_RB 25,#RB 12	Pass	-4.10	17.99	15.84	0.03837	7	22.09	0.162	Inf	22.09
844MHz_QPSK_RB 25,#RB 25	Pass	-4.10	17.98	15.83	0.03828	7	22.08	0.161	Inf	22.08
844MHz_QPSK_RB 50,#RB 0	Pass	-4.10	17.98	15.83	0.03828	7	22.08	0.161	Inf	22.08
829MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.65	15.50	0.03548	7	21.75	0.150	Inf	21.75
829MHz_16QAM_RB 1,#RB 25	Pass	-4.10	17.82	15.67	0.03690	7	21.92	0.156	Inf	21.92
829MHz_16QAM_RB 1,#RB 49	Pass	-4.10	17.61	15.46	0.03516	7	21.71	0.148	Inf	21.71
829MHz_16QAM_RB 25,#RB 0	Pass	-4.10	16.84	14.69	0.02944	7	20.94	0.124	Inf	20.94
829MHz_16QAM_RB 25,#RB 12	Pass	-4.10	16.88	14.73	0.02972	7	20.98	0.125	Inf	20.98
829MHz_16QAM_RB 25,#RB 25	Pass	-4.10	16.92	14.77	0.02999	7	21.02	0.126	Inf	21.02
829MHz_16QAM_RB 50,#RB 0	Pass	-4.10	16.68	14.53	0.02838	7	20.78	0.120	Inf	20.78
836.5MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.63	15.48	0.03532	7	21.73	0.149	Inf	21.73
836.5MHz_16QAM_RB 1,#RB 25	Pass	-4.10	17.95	15.80	0.03802	7	22.05	0.160	Inf	22.05
836.5MHz_16QAM_RB 1,#RB 49	Pass	-4.10	17.76	15.61	0.03639	7	21.86	0.153	Inf	21.86
836.5MHz_16QAM_RB 25,#RB 0	Pass	-4.10	16.88	14.73	0.02972	7	20.98	0.125	Inf	20.98
836.5MHz_16QAM_RB 25,#RB 12	Pass	-4.10	17.19	15.04	0.03192	7	21.29	0.135	Inf	21.29
836.5MHz_16QAM_RB 25,#RB 25	Pass	-4.10	17.05	14.90	0.03090	7	21.15	0.130	Inf	21.15
836.5MHz_16QAM_RB 50,#RB 0	Pass	-4.10	16.93	14.78	0.03006	7	21.03	0.127	Inf	21.03
844MHz_16QAM_RB 1,#RB 0	Pass	-4.10	17.67	15.52	0.03565	7	21.77	0.150	Inf	21.77
844MHz_16QAM_RB 1,#RB 25	Pass	-4.10	17.93	15.78	0.03784	7	22.03	0.160	Inf	22.03
844MHz_16QAM_RB 1,#RB 49	Pass	-4.10	17.71	15.56	0.03597	7	21.81	0.152	Inf	21.81
844MHz_16QAM_RB 25,#RB 0	Pass	-4.10	17.23	15.08	0.03221	7	21.33	0.136	Inf	21.33
844MHz_16QAM_RB 25,#RB 12	Pass	-4.10	17.25	15.10	0.03236	7	21.35	0.136	Inf	21.35
844MHz_16QAM_RB 25,#RB 25	Pass	-4.10	17.19	15.04	0.03192	7	21.29	0.135	Inf	21.29
844MHz_16QAM_RB 50,#RB 0	Pass	-4.10	16.93	14.78	0.03006	7	21.03	0.127	Inf	21.03

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

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

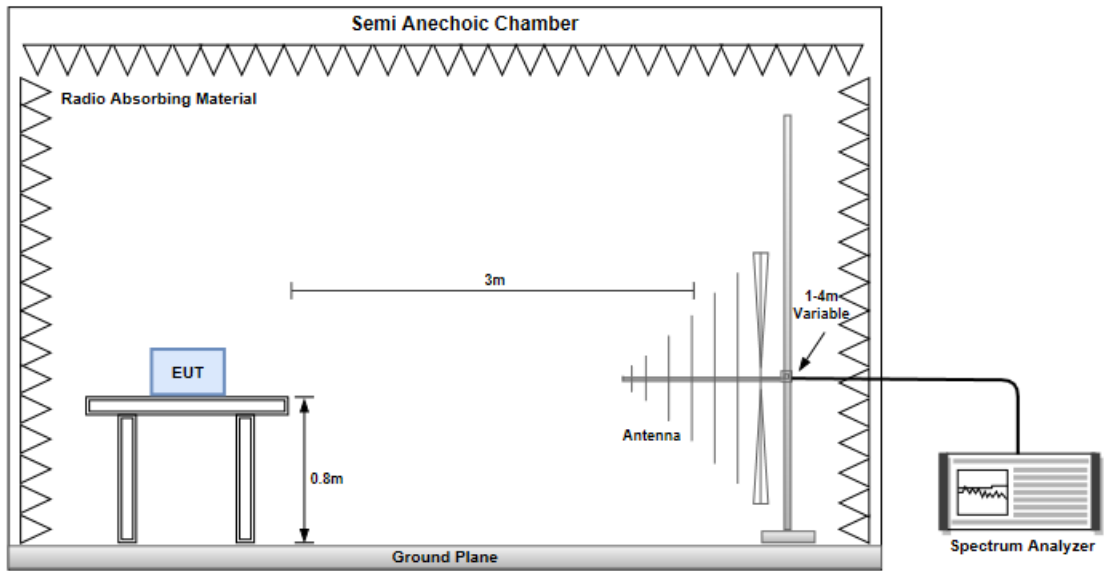
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13dBm.

3.2.2 Test Procedures

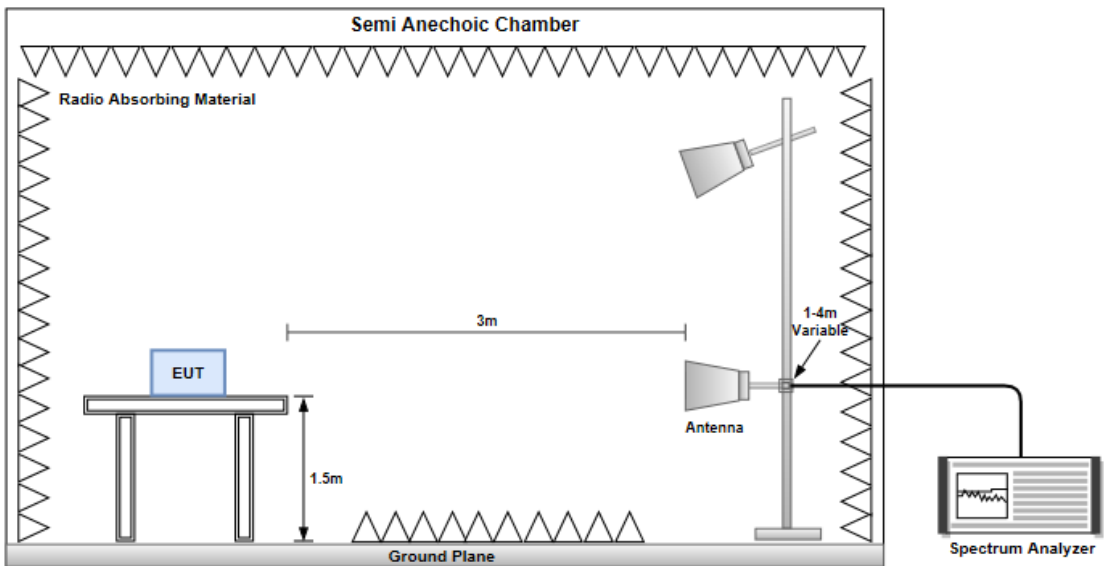
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:
 $E.R.P = E.I.R.P - 2.15dB$.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions below 1GHz

Mode		GSM, Channel : 189					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-68.58	-13.00	-55.58	-74.56	-46.98	-19.45
90.14	H	-76.36	-13.00	-63.36	-72.14	-69.30	-4.91
105.66	H	-74.94	-13.00	-61.94	-70.72	-67.48	-5.31
148.34	H	-78.93	-13.00	-65.93	-76.07	-70.22	-6.56
644.01	H	-41.16	-13.00	-28.16	-44.67	-37.29	-1.72
934.04	H	-42.91	-13.00	-29.91	-51.70	-38.26	-2.50
30.00	V	-70.62	-13.00	-57.62	-63.43	-49.02	-19.45
70.74	V	-74.57	-13.00	-61.57	-69.91	-62.11	-10.31
90.14	V	-64.62	-13.00	-51.62	-60.15	-57.56	-4.91
101.78	V	-71.92	-13.00	-58.92	-67.98	-64.66	-5.11
644.01	V	-40.59	-13.00	-27.59	-46.79	-36.72	-1.72
934.04	V	-47.55	-13.00	-34.55	-58.29	-42.90	-2.50

Mode		WCDMA, Channel : 4182					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-68.21	-13.00	-55.21	-74.19	-46.61	-19.45
41.64	H	-72.16	-13.00	-59.16	-76.53	-52.64	-17.37
90.14	H	-75.36	-13.00	-62.36	-71.14	-68.30	-4.91
105.66	H	-78.24	-13.00	-65.24	-74.02	-70.78	-5.31
163.86	H	-78.72	-13.00	-65.72	-75.45	-70.59	-5.98
184.23	H	-79.62	-13.00	-66.62	-74.23	-73.09	-4.38
30.00	V	-71.51	-13.00	-58.51	-64.32	-49.91	-19.45
61.04	V	-77.18	-13.00	-64.18	-72.54	-61.50	-13.53
73.65	V	-75.40	-13.00	-62.40	-71.42	-63.91	-9.34
90.14	V	-65.58	-13.00	-52.58	-61.11	-58.52	-4.91
105.66	V	-73.05	-13.00	-60.05	-69.53	-65.59	-5.31
159.01	V	-75.60	-13.00	-62.60	-75.79	-67.16	-6.29

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

Mode							
LTE Band 5, QPSK, CB:1.4 MHz, 1 RB Offset 3, Channel: 20407							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-68.01	-13.00	-55.01	-73.99	-46.41	-19.45
90.14	H	-75.65	-13.00	-62.65	-71.43	-68.59	-4.91
105.66	H	-76.28	-13.00	-63.28	-72.06	-68.82	-5.31
176.47	H	-79.49	-13.00	-66.49	-75.12	-72.31	-5.03
332.64	H	-78.02	-13.00	-65.02	-76.70	-74.72	-1.15
374.35	H	-76.54	-13.00	-63.54	-76.55	-73.23	-1.16
30.00	V	-72.54	-13.00	-59.54	-65.35	-50.94	-19.45
33.88	V	-73.21	-13.00	-60.21	-66.33	-52.56	-18.50
64.92	V	-76.18	-13.00	-63.18	-71.36	-61.78	-12.25
74.62	V	-74.21	-13.00	-61.21	-70.46	-63.04	-9.02
90.14	V	-65.65	-13.00	-52.65	-61.18	-58.59	-4.91
105.66	V	-71.95	-13.00	-58.95	-68.43	-64.49	-5.31

Mode							
LTE Band 5, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 20525							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
32.91	H	-69.43	-13.00	-56.43	-74.85	-48.54	-18.74
49.40	H	-74.26	-13.00	-61.26	-76.91	-55.90	-16.21
90.14	H	-75.15	-13.00	-62.15	-70.93	-68.09	-4.91
105.66	H	-77.75	-13.00	-64.75	-73.53	-70.29	-5.31
156.10	H	-78.68	-13.00	-65.68	-75.77	-70.16	-6.37
167.74	H	-78.95	-13.00	-65.95	-75.35	-71.11	-5.69
30.00	V	-71.16	-13.00	-58.16	-63.97	-49.56	-19.45
73.65	V	-75.60	-13.00	-62.60	-71.62	-64.11	-9.34
76.56	V	-75.45	-13.00	-62.45	-72.11	-64.92	-8.38
90.14	V	-65.44	-13.00	-52.44	-60.97	-58.38	-4.91
105.66	V	-73.25	-13.00	-60.25	-69.73	-65.79	-5.31
159.01	V	-75.43	-13.00	-62.43	-75.62	-66.99	-6.29

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

Mode	LTE Band 5, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 20525						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.97	H	-69.54	-13.00	-56.54	-75.33	-48.18	-19.21
90.14	H	-76.13	-13.00	-63.13	-71.91	-69.07	-4.91
105.66	H	-78.49	-13.00	-65.49	-74.27	-71.03	-5.31
140.58	H	-78.96	-13.00	-65.96	-76.15	-70.06	-6.75
171.62	H	-79.55	-13.00	-66.55	-75.61	-72.00	-5.40
398.60	H	-76.12	-13.00	-63.12	-76.37	-72.74	-1.23
30.00	V	-71.81	-13.00	-58.81	-64.62	-50.21	-19.45
33.88	V	-73.96	-13.00	-60.96	-67.08	-53.31	-18.50
90.14	V	-65.27	-13.00	-52.27	-60.80	-58.21	-4.91
101.78	V	-73.15	-13.00	-60.15	-69.21	-65.89	-5.11
105.66	V	-73.80	-13.00	-60.80	-70.28	-66.34	-5.31
159.01	V	-74.56	-13.00	-61.56	-74.75	-66.12	-6.29

Mode	LTE Band 5, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 20525						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-68.59	-13.00	-55.59	-74.57	-46.99	-19.45
32.91	H	-68.78	-13.00	-55.78	-74.20	-47.89	-18.74
90.14	H	-75.09	-13.00	-62.09	-70.87	-68.03	-4.91
156.10	H	-79.28	-13.00	-66.28	-76.37	-70.76	-6.37
357.86	H	-77.12	-13.00	-64.12	-76.97	-73.86	-1.11
484.86	H	-74.56	-13.00	-61.56	-75.54	-71.10	-1.31
30.00	V	-69.71	-13.00	-56.71	-62.52	-48.11	-19.45
33.88	V	-74.08	-13.00	-61.08	-67.20	-53.43	-18.50
90.14	V	-65.19	-13.00	-52.19	-60.72	-58.13	-4.91
101.78	V	-73.83	-13.00	-60.83	-69.89	-66.57	-5.11
105.66	V	-74.00	-13.00	-61.00	-70.48	-66.54	-5.31
159.01	V	-75.87	-13.00	-62.87	-76.06	-67.43	-6.29

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

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode		GSM, Channel : 128					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1648.40	H	-39.97	-13.00	-26.97	-44.11	-43.60	5.78
2472.60	H	-37.97	-13.00	-24.97	-45.67	-42.07	6.25
3296.80	H	-48.54	-13.00	-35.54	-59.37	-53.30	6.91
1648.40	V	-43.59	-13.00	-30.59	-47.83	-47.22	5.78
2472.60	V	-41.98	-13.00	-28.98	-49.86	-46.08	6.25
3296.80	V	-49.01	-13.00	-36.01	-59.85	-53.77	6.91

Mode		GSM, Channel : 190					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1672.80	H	-38.01	-13.00	-25.01	-42.27	-41.75	5.89
2509.20	H	-35.56	-13.00	-22.56	-43.43	-39.78	6.37
3345.60	H	-49.47	-13.00	-36.47	-60.42	-54.43	7.11
1672.80	V	-42.54	-13.00	-29.54	-46.84	-46.28	5.89
2509.20	V	-40.77	-13.00	-27.77	-48.68	-44.99	6.37
3345.60	V	-47.15	-13.00	-34.15	-58.13	-52.11	7.11

Mode		GSM, Channel : 251					
Frequency (MHz)	Antenna Polarity.	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
1697.60	H	-36.86	-13.00	-23.86	-41.25	-40.70	5.99
2546.40	H	-32.86	-13.00	-19.86	-40.90	-37.20	6.49
3395.20	H	-48.56	-13.00	-35.56	-59.63	-53.73	7.32
1697.60	V	-41.88	-13.00	-28.88	-46.26	-45.72	5.99
2546.40	V	-39.66	-13.00	-26.66	-47.60	-44.00	6.49
3395.20	V	-48.62	-13.00	-35.62	-59.75	-53.79	7.32

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

Mode		WCDMA, Channel : 4132					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1648.40	H	-59.86	-13.00	-46.86	-64.00	-63.49	5.78
2472.60	H	-57.01	-13.00	-44.01	-64.71	-61.11	6.25
4121.00	H	-43.33	-13.00	-30.33	-55.56	-48.05	6.87
1648.40	V	-58.19	-13.00	-45.19	-62.43	-61.82	5.78
2472.60	V	-56.33	-13.00	-43.33	-64.21	-60.43	6.25
4121.00	V	-48.27	-13.00	-35.27	-60.52	-52.99	6.87

Mode		WCDMA, Channel : 4182					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1672.80	H	-59.38	-13.00	-46.38	-63.64	-63.12	5.89
2509.20	H	-56.81	-13.00	-43.81	-64.68	-61.03	6.37
4182.00	H	-44.52	-13.00	-31.52	-56.77	-49.20	6.83
1672.80	V	-59.19	-13.00	-46.19	-63.49	-62.93	5.89
2509.20	V	-56.87	-13.00	-43.87	-64.78	-61.09	6.37
4182.00	V	-47.13	-13.00	-34.13	-59.34	-51.81	6.83

Mode		WCDMA, Channel : 4233					
Frequency (MHz)	Antenna Polarity.	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
1693.20	H	-57.83	-13.00	-44.83	-62.20	-61.66	5.98
2539.80	H	-55.97	-13.00	-42.97	-63.97	-60.29	6.47
4233.00	H	-43.27	-13.00	-30.27	-55.63	-47.90	6.78
1693.20	V	-57.90	-13.00	-44.90	-62.26	-61.73	5.98
2539.80	V	-56.08	-13.00	-43.08	-64.01	-60.40	6.47
4233.00	V	-46.27	-13.00	-33.27	-58.59	-50.90	6.78

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

Mode							
LTE Band 5, QPSK, CB:1.4 MHz, 1 RB Offset 3, Channel: 20407							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2474.10	H	-46.04	-13.00	-33.04	-53.75	-50.15	6.26
3298.80	H	-45.22	-13.00	-32.22	-56.06	-49.98	6.91
4123.50	H	-40.03	-13.00	-27.03	-52.26	-44.75	6.87
2474.10	V	-44.64	-13.00	-31.64	-52.52	-48.75	6.26
3298.80	V	-43.03	-13.00	-30.03	-53.88	-47.79	6.91
4123.50	V	-42.33	-13.00	-29.33	-54.58	-47.05	6.87

Mode							
LTE Band 5, QPSK, CB:1.4 MHz, 1 RB Offset 3, Channel: 20525							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2509.50	H	-45.44	-13.00	-32.44	-53.31	-49.66	6.37
3346.00	H	-44.89	-13.00	-31.89	-55.84	-49.85	7.11
4182.50	H	-39.49	-13.00	-26.49	-51.74	-44.17	6.83
2509.50	V	-44.23	-13.00	-31.23	-52.14	-48.45	6.37
3346.00	V	-43.32	-13.00	-30.32	-54.30	-48.28	7.11
4182.50	V	-41.79	-13.00	-28.79	-54.00	-46.47	6.83

Mode							
LTE Band 5, QPSK, CB:1.4 MHz, 1 RB Offset 3, Channel: 20643							
Frequency (MHz)	Antenna Polarity.	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2544.90	H	-45.07	-13.00	-32.07	-53.10	-49.40	6.48
3393.20	H	-44.68	-13.00	-31.68	-55.75	-49.84	7.31
4241.50	H	-38.87	-13.00	-25.87	-51.26	-43.49	6.77
2544.90	V	-43.77	-13.00	-30.77	-51.71	-48.10	6.48
3393.20	V	-43.08	-13.00	-30.08	-54.20	-48.24	7.31
4241.50	V	-41.18	-13.00	-28.18	-53.52	-45.80	6.77

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

Mode							
LTE Band 5, QPSK, CB:3 MHz, 1 RB Offset 14, Channel: 20415							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2479.80	H	-45.78	-13.00	-32.78	-53.50	-49.89	6.26
3306.40	H	-44.95	-13.00	-31.95	-55.79	-49.73	6.93
4133.00	H	-39.70	-13.00	-26.70	-51.93	-44.41	6.86
2479.80	V	-44.34	-13.00	-31.34	-52.22	-48.45	6.26
3306.40	V	-43.27	-13.00	-30.27	-54.13	-48.05	6.93
4133.00	V	-41.80	-13.00	-28.80	-54.05	-46.51	6.86

Mode							
LTE Band 5, QPSK, CB:3 MHz, 1 RB Offset 14, Channel: 20525							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2512.80	H	-44.93	-13.00	-31.93	-52.80	-49.15	6.37
3350.40	H	-44.48	-13.00	-31.48	-55.43	-49.44	7.11
4188.00	H	-39.05	-13.00	-26.05	-51.30	-43.73	6.83
2512.80	V	-43.67	-13.00	-30.67	-51.58	-47.89	6.37
3350.40	V	-42.84	-13.00	-29.84	-53.82	-47.80	7.11
4188.00	V	-41.24	-13.00	-28.24	-53.45	-45.92	6.83

Mode							
LTE Band 5, QPSK, CB:3 MHz, 1 RB Offset 14, Channel: 20635							
Frequency (MHz)	Antenna Polarity.	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2539.20	H	-44.46	-13.00	-31.46	-52.47	-48.79	6.48
3385.60	H	-43.95	-13.00	-30.95	-55.01	-49.10	7.30
4232.00	H	-38.24	-13.00	-25.24	-50.62	-42.87	6.78
2539.20	V	-42.91	-13.00	-29.91	-50.84	-47.24	6.48
3385.60	V	-42.54	-13.00	-29.54	-53.65	-47.69	7.30
4232.00	V	-40.34	-13.00	-27.34	-52.67	-44.97	6.78

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

Mode							
LTE Band 5, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 20425							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2479.50	H	-44.78	-13.00	-31.78	-52.52	-48.90	6.27
3306.00	H	-43.39	-13.00	-30.39	-54.24	-48.19	6.95
4132.50	H	-39.44	-13.00	-26.44	-51.67	-44.15	6.86
2479.50	V	-41.90	-13.00	-28.90	-49.79	-46.02	6.27
3306.00	V	-42.91	-13.00	-29.91	-53.78	-47.71	6.95
4132.50	V	-41.43	-13.00	-28.43	-53.67	-46.14	6.86

Mode							
LTE Band 5, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 20525							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2509.50	H	-44.33	-13.00	-31.33	-52.20	-48.55	6.37
3346.00	H	-43.32	-13.00	-30.32	-54.27	-48.28	7.11
4182.50	H	-39.25	-13.00	-26.25	-51.50	-43.93	6.83
2509.50	V	-41.59	-13.00	-28.59	-49.50	-45.81	6.37
3346.00	V	-42.70	-13.00	-29.70	-53.68	-47.66	7.11
4182.50	V	-41.28	-13.00	-28.28	-53.49	-45.96	6.83

Mode							
LTE Band 5, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 20625							
Frequency (MHz)	Antenna Polarity.	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2539.50	H	-43.64	-13.00	-30.64	-51.64	-47.96	6.47
3386.00	H	-42.98	-13.00	-29.98	-54.03	-48.11	7.28
4232.50	H	-38.60	-13.00	-25.60	-50.96	-43.23	6.78
2539.50	V	-40.84	-13.00	-27.84	-48.77	-45.16	6.47
3386.00	V	-42.25	-13.00	-29.25	-53.35	-47.38	7.28
4232.50	V	-40.27	-13.00	-27.27	-52.58	-44.90	6.78

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

Mode							
LTE Band 5, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 20450							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2487.00	H	-44.23	-13.00	-31.23	-52.00	-48.38	6.30
3316.00	H	-43.33	-13.00	-30.33	-54.20	-48.17	6.99
4145.00	H	-39.30	-13.00	-26.30	-51.54	-44.00	6.85
2487.00	V	-41.72	-13.00	-28.72	-49.61	-45.87	6.30
3316.00	V	-42.62	-13.00	-29.62	-53.51	-47.46	6.99
4145.00	V	-41.16	-13.00	-28.16	-53.40	-45.86	6.85

Mode							
LTE Band 5, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 20525							
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2509.50	H	-43.63	-13.00	-30.63	-51.50	-47.85	6.37
3346.00	H	-42.92	-13.00	-29.92	-53.87	-47.88	7.11
4182.50	H	-38.94	-13.00	-25.94	-51.19	-43.62	6.83
2509.50	V	-41.21	-13.00	-28.21	-49.12	-45.43	6.37
3346.00	V	-42.27	-13.00	-29.27	-53.25	-47.23	7.11
4182.50	V	-40.89	-13.00	-27.89	-53.10	-45.57	6.83

Mode							
LTE Band 5, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 20600							
Frequency (MHz)	Antenna Polarity.	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2532.00	H	-42.18	-13.00	-29.18	-50.15	-46.47	6.44
3376.00	H	-41.65	-13.00	-28.65	-52.68	-46.74	7.24
4220.00	H	-37.39	-13.00	-24.39	-49.71	-42.04	6.80
2532.00	V	-39.75	-13.00	-26.75	-47.68	-44.04	6.44
3376.00	V	-40.99	-13.00	-27.99	-52.07	-46.08	7.24
4220.00	V	-39.27	-13.00	-26.27	-51.53	-43.92	6.80

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

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

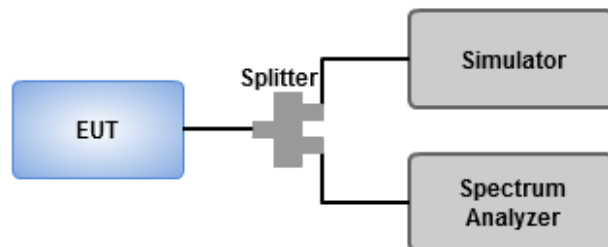
Out of band emission

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 = 100 kHz, VBW = 300kHz, 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.

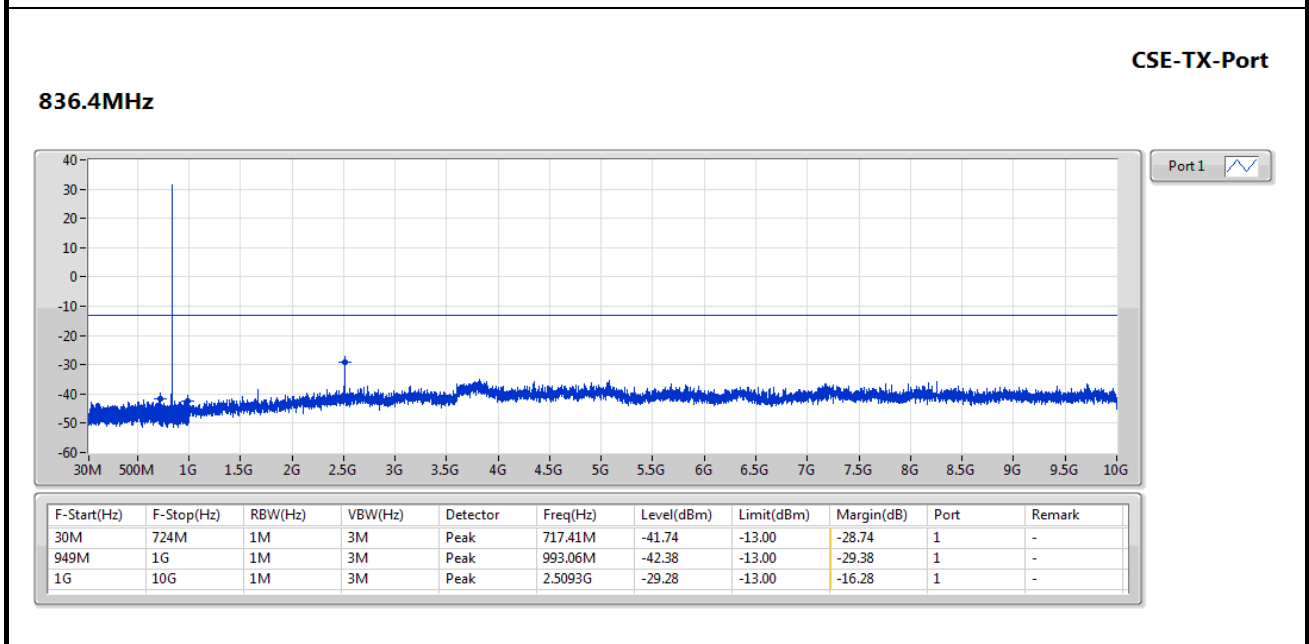
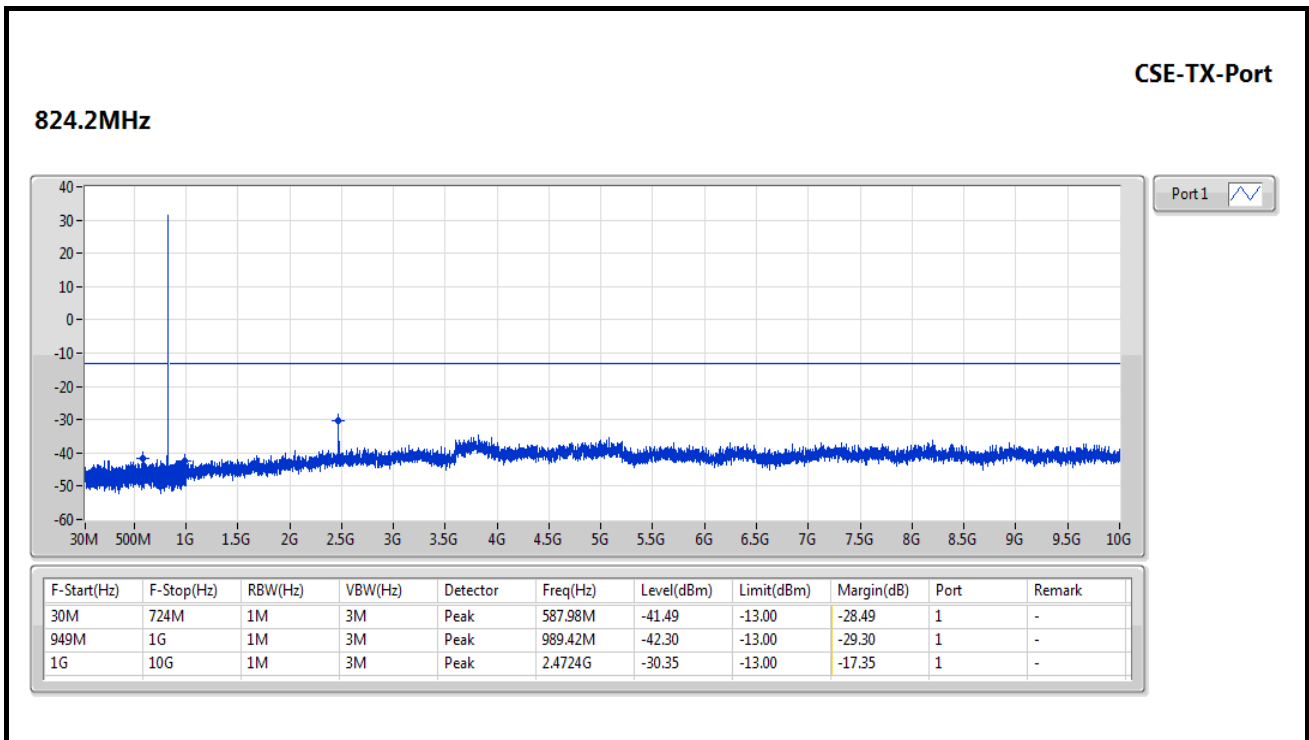
3.3.3 Test Setup

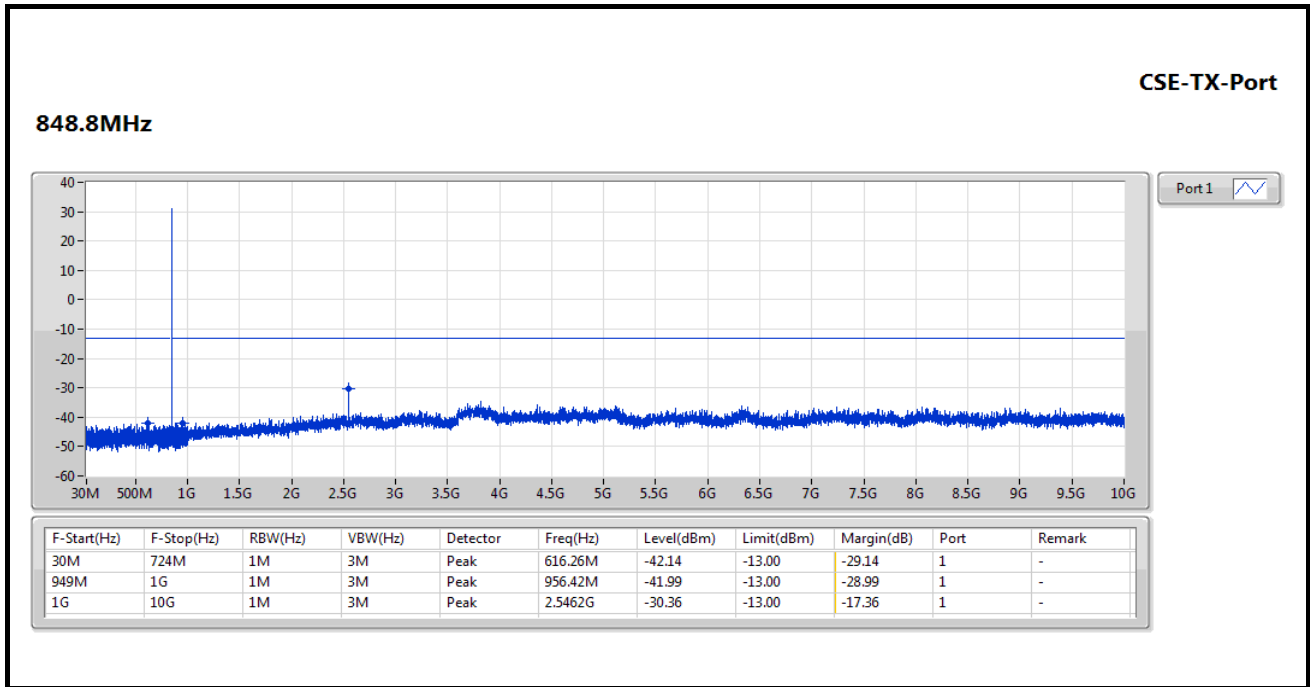


3.3.4 Test Result of Conducted Emissions & Band Edge

Summary

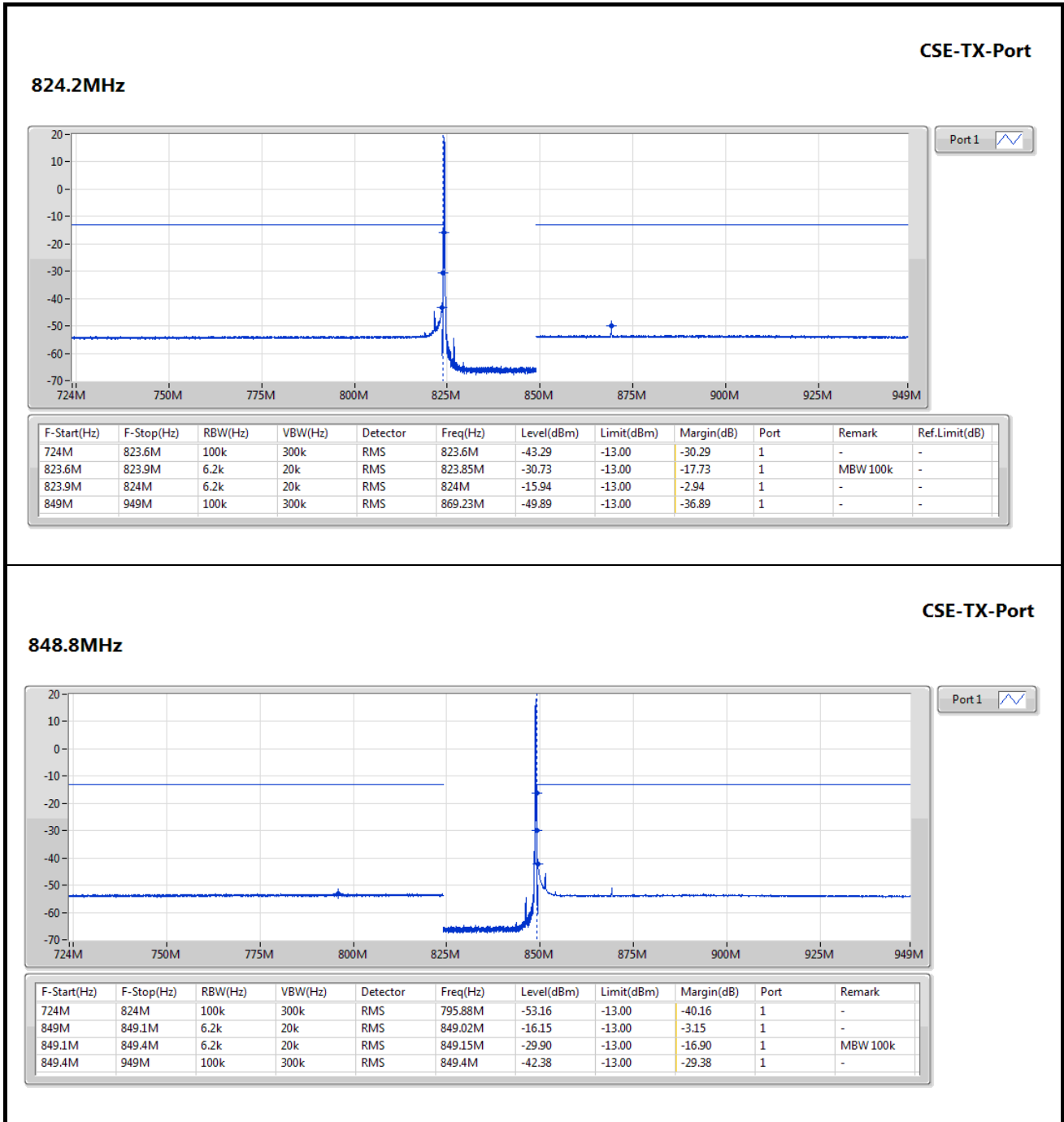
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
850	-	-	-	-	-	-	-	-	-	-	-	-	-
GSM	Pass	1G	10G	1M	3M	Peak	2.5093G	-29.28	-13.00	-16.28	1	-	-





Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
850	-	-	-	-	-	-	-	-	-	-	-	-	-
GSM	Pass	823.9M	824M	6.2k	20k	RMS	824M	-15.94	-13.00	-2.94	1	-	-



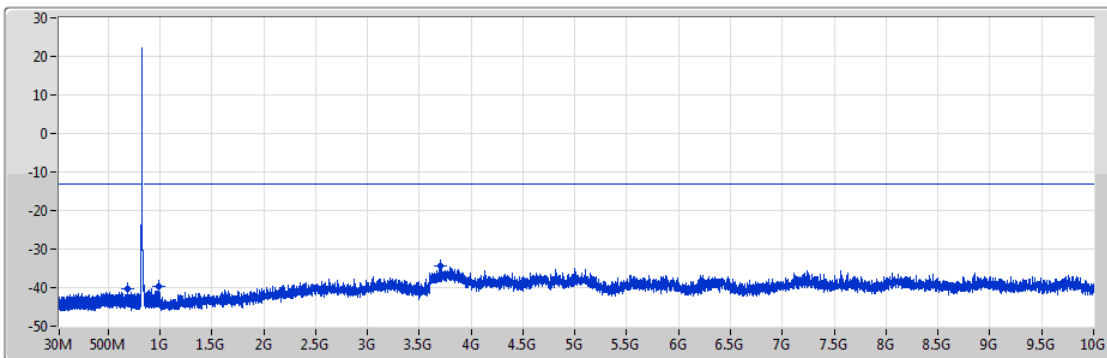
Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
Band 5	-	-	-	-	-	-	-	-	-	-	-	-	-
WCDMA	Pass	1G	10G	1M	3M	Peak	3.8458G	-34.14	-13.00	-21.14	1	-	-

Band 5_WCDMA_5MHz_Nss1_1TX

CSE-TX-Port

826.4MHz

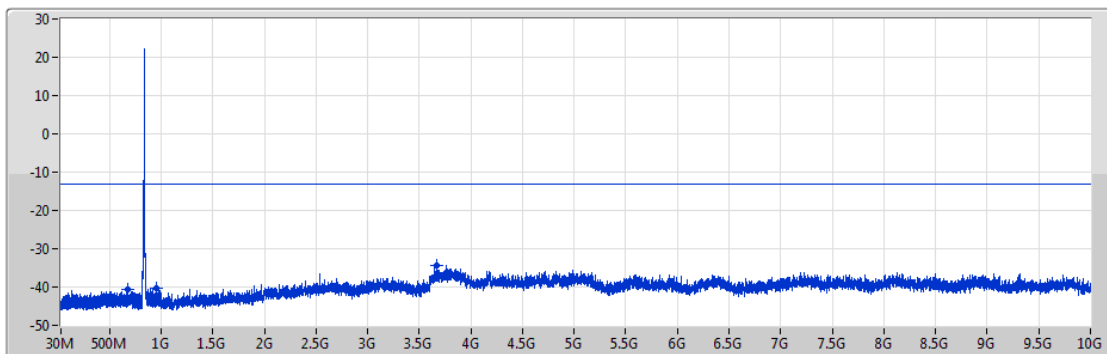


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	689.47M	-40.43	-13.00	-27.43	1	-
949M	1G	1M	3M	Peak	986.49M	-39.63	-13.00	-26.63	1	-
1G	10G	1M	3M	Peak	3.7063G	-34.50	-13.00	-21.50	1	-

Band 5_WCDMA_5MHz_Nss1_1TX

CSE-TX-Port

836.4MHz

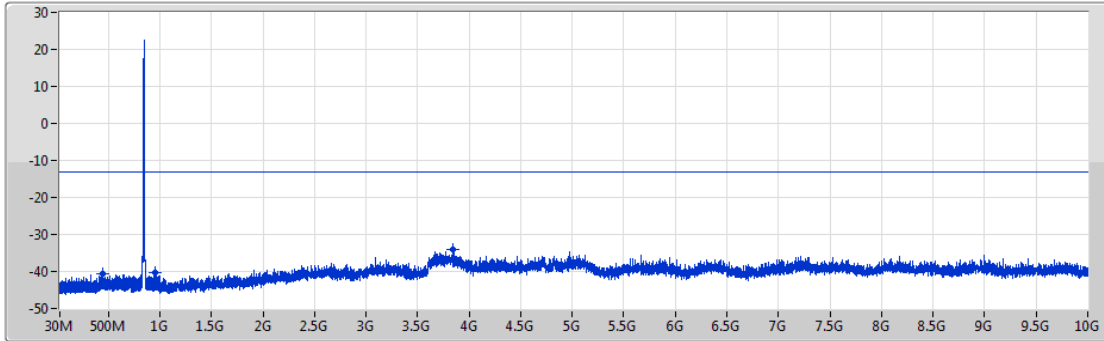


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	673.69M	-40.60	-13.00	-27.60	1	-
949M	1G	1M	3M	Peak	949.13M	-40.39	-13.00	-27.39	1	-
1G	10G	1M	3M	Peak	3.6721G	-34.34	-13.00	-21.34	1	-

Band 5_WCDMA_5MHz_Nss1_1TX

CSE-TX-Port

846.6MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	444.67M	-40.51	-13.00	-27.51	1	-
949M	1G	1M	3M	Peak	949.31M	-40.38	-13.00	-27.38	1	-
1G	10G	1M	3M	Peak	3.8458G	-34.14	-13.00	-21.14	1	-

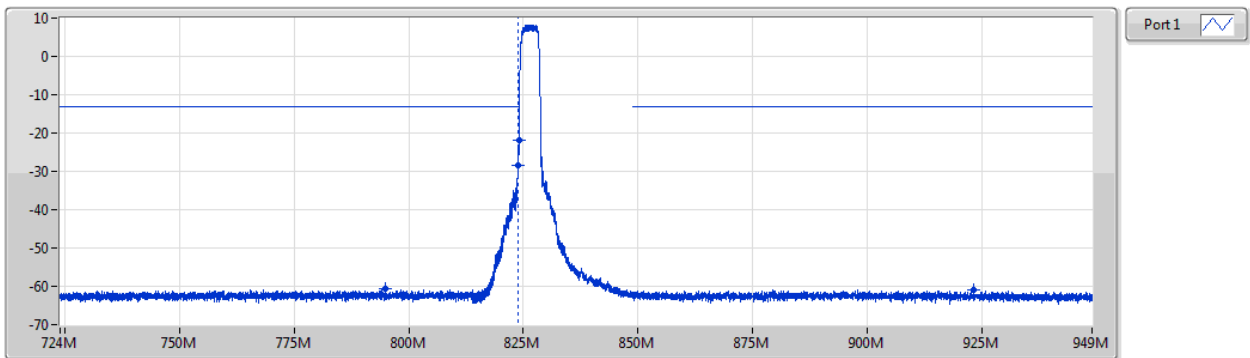
Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
Band 5	-	-	-	-	-	-	-	-	-	-	-	-	-
WCDMA	Pass	823.9M	824M	100k	300k	RMS	824M	-21.98	-13.00	-8.98	1	-	-

Band 5_WCDMA

CSE-TX-Port

826.4MHz

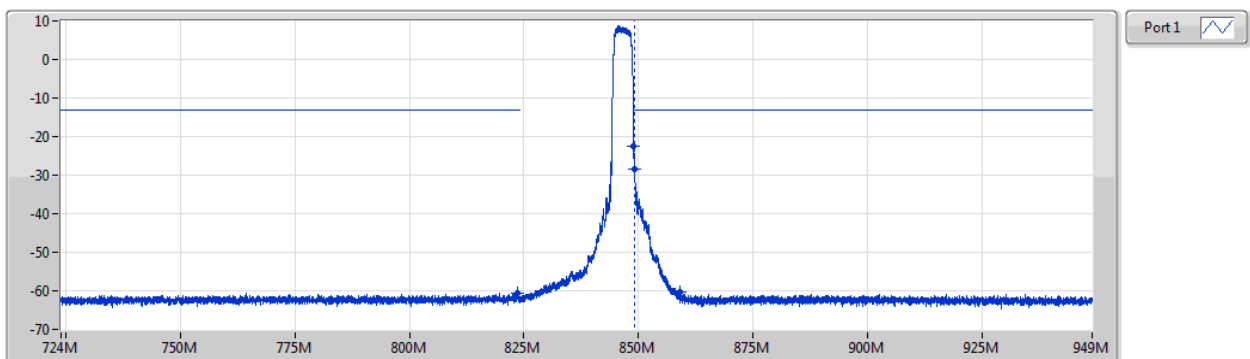


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	814M	100k	300k	RMS	794.94M	-60.76	-13.00	-47.76	1	-	-
814M	823.9M	100k	300k	RMS	823.85M	-28.36	-13.00	-15.36	1	MBW 100k	-
823.9M	824M	100k	300k	RMS	824M	-21.98	-13.00	-8.98	1	-	-
849M	949M	100k	300k	RMS	923.1M	-60.80	-13.00	-47.80	1	-	-

Band 5_WCDMA

CSE-TX-Port

846.6MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	823.58M	-60.71	-13.00	-47.71	1	-
849M	849.1M	100k	300k	RMS	849M	-22.47	-13.00	-9.47	1	-
849.1M	859M	100k	300k	RMS	849.15M	-28.32	-13.00	-15.32	1	MBW 100k
859M	949M	100k	300k	RMS	859M	-60.32	-13.00	-47.32	1	-

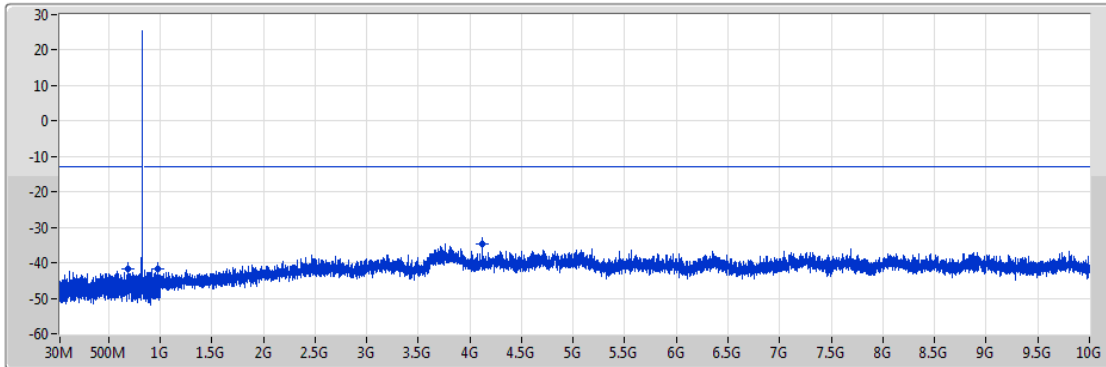
Summary


Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
Band 5	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	1G	10G	1M	3M	Peak	4.2427G	-33.92	-13.00	-20.92	1	-	-
LTE_1.4MHz_Nss1,16QAM_1TX	Pass	1G	10G	1M	3M	Peak	4.1239G	-33.15	-13.00	-20.15	1	-	-
LTE_3MHz_Nss1,QPSK_1TX	Pass	1G	10G	1M	3M	Peak	4.1833G	-32.30	-13.00	-19.30	1	-	-
LTE_3MHz_Nss1,16QAM_1TX	Pass	1G	10G	1M	3M	Peak	4.1833G	-33.18	-13.00	-20.18	1	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	1G	10G	1M	3M	Peak	3.7936G	-34.99	-13.00	-21.99	1	-	-
LTE_5MHz_Nss1,16QAM_1TX	Pass	1G	10G	1M	3M	Peak	3.7558G	-34.26	-13.00	-21.26	1	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	1G	10G	1M	3M	Peak	4.1446G	-32.27	-13.00	-19.27	1	-	-
LTE_10MHz_Nss1,16QAM_1TX	Pass	1G	10G	1M	3M	Peak	4.2193G	-33.83	-13.00	-20.83	1	-	-

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

824.7MHz



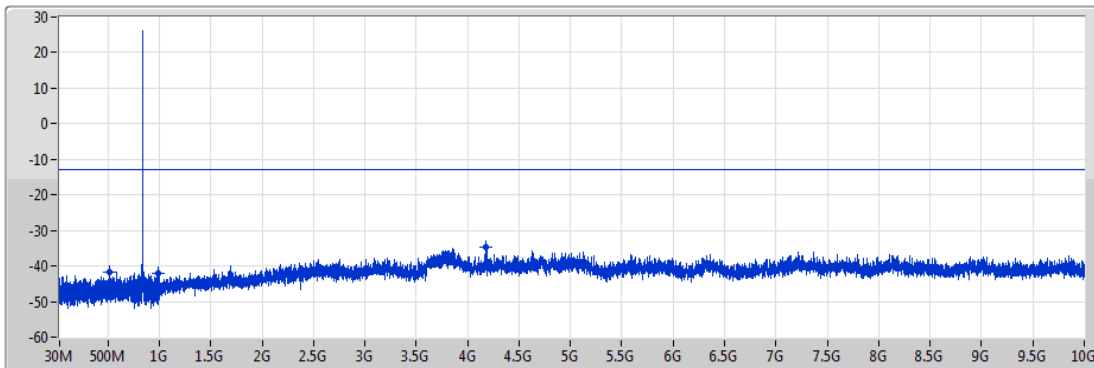
Port1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	691.73M	-41.64	-13.00	-28.64	1	-
949M	1G	1M	3M	Peak	972.15M	-41.85	-13.00	-28.85	1	-
1G	10G	1M	3M	Peak	4.1239G	-34.70	-13.00	-21.70	1	-

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

836.5MHz



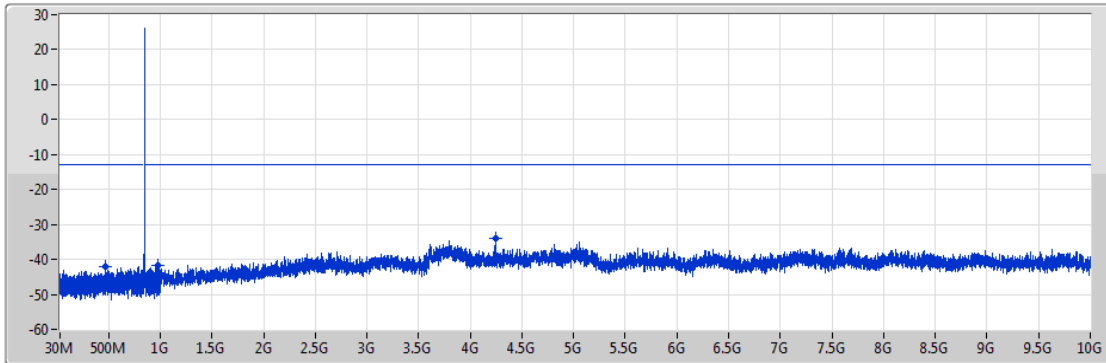
Port1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	520.31M	-41.62	-13.00	-28.62	1	-
949M	1G	1M	3M	Peak	987.45M	-41.98	-13.00	-28.98	1	-
1G	10G	1M	3M	Peak	4.1824G	-34.53	-13.00	-21.53	1	-

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

848.3MHz



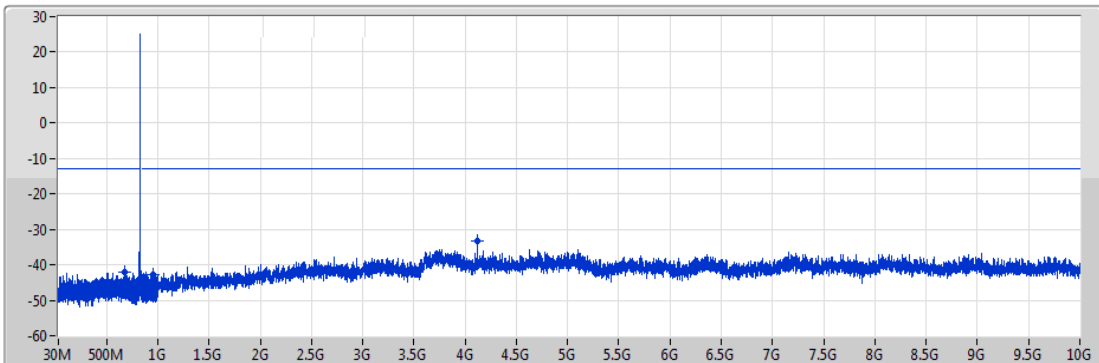
Port1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	471.21M	-42.13	-13.00	-29.13	1	-
949M	1G	1M	3M	Peak	972.66M	-41.85	-13.00	-28.85	1	-
1G	10G	1M	3M	Peak	4.2427G	-33.92	-13.00	-20.92	1	-

Band 5_LTE_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

824.7MHz



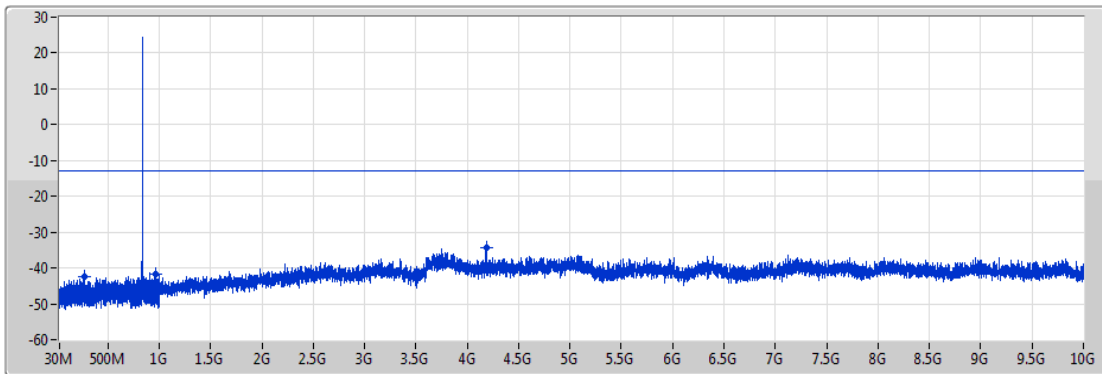
Port1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	677.5M	-41.99	-13.00	-28.99	1	-
949M	1G	1M	3M	Peak	954.13M	-42.75	-13.00	-29.75	1	-
1G	10G	1M	3M	Peak	4.1239G	-33.15	-13.00	-20.15	1	-

Band 5_LTE_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

836.5MHz



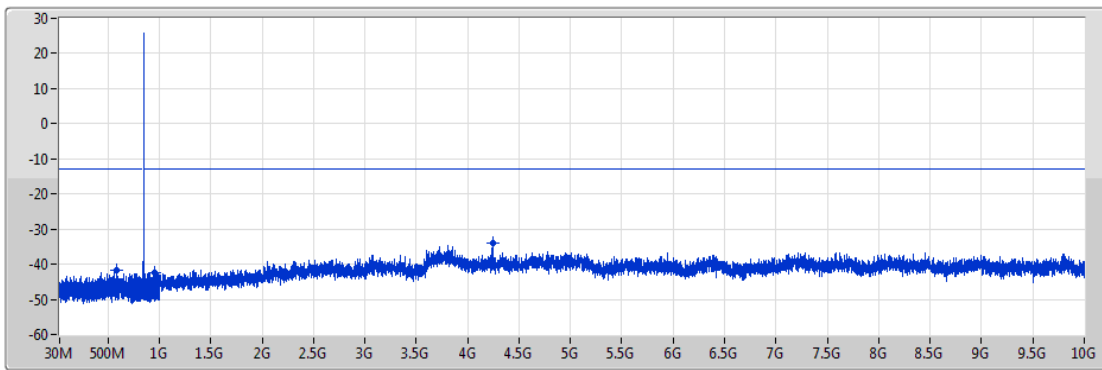
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	277.06M	-42.35	-13.00	-29.35	1	-
949M	1G	1M	3M	Peak	964.68M	-41.86	-13.00	-28.86	1	-
1G	10G	1M	3M	Peak	4.1833G	-34.24	-13.00	-21.24	1	-

Band 5_LTE_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

848.3MHz

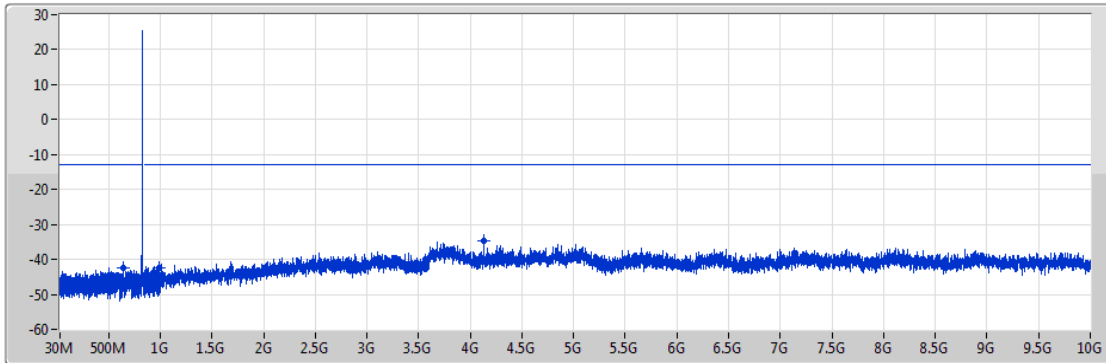



Port 1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	585.55M	-41.81	-13.00	-28.81	1	-
949M	1G	1M	3M	Peak	950.84M	-42.31	-13.00	-29.31	1	-
1G	10G	1M	3M	Peak	4.2418G	-34.01	-13.00	-21.01	1	-

Band 5_LTE_3MHz_Nss1,QPSK_1TX
825.5MHz

CSE-TX-Port

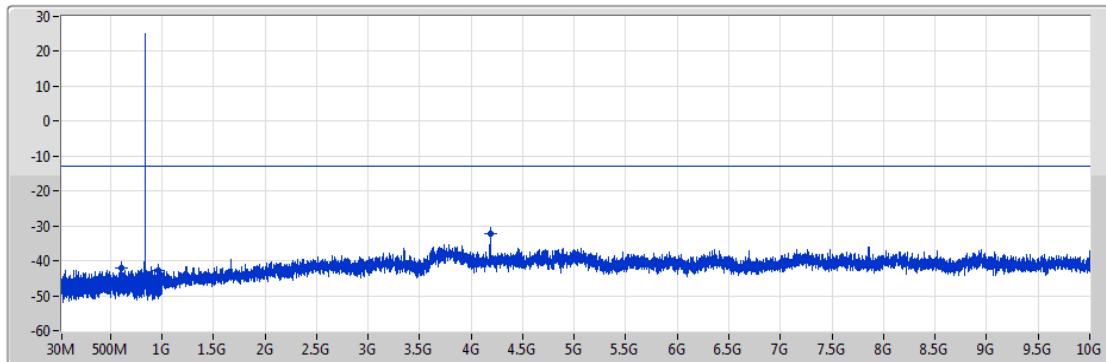



Port1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	642.11M	-42.37	-13.00	-29.37	1	-
949M	1G	1M	3M	Peak	989.04M	-42.53	-13.00	-29.53	1	-
1G	10G	1M	3M	Peak	4.1284G	-34.60	-13.00	-21.60	1	-

Band 5_LTE_3MHz_Nss1,QPSK_1TX
836.5MHz

CSE-TX-Port



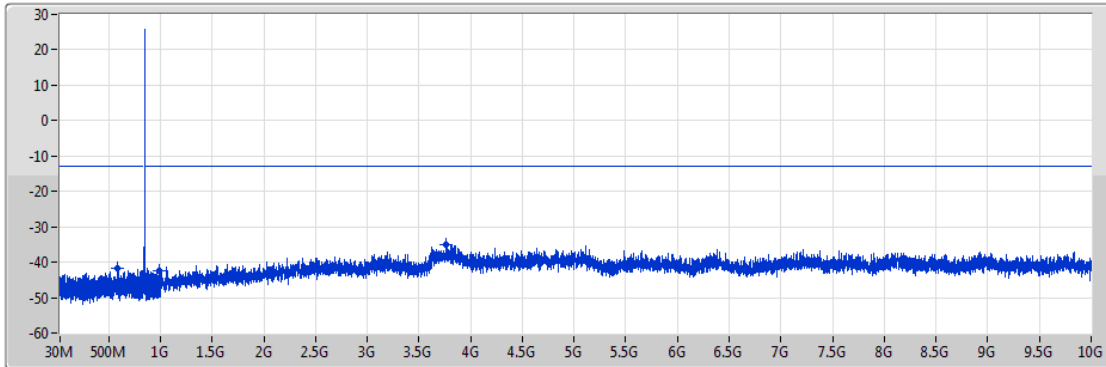
Port1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	612.44M	-42.09	-13.00	-29.09	1	-
949M	1G	1M	3M	Peak	967.95M	-42.92	-13.00	-29.92	1	-
1G	10G	1M	3M	Peak	4.1833G	-32.30	-13.00	-19.30	1	-

Band 5_LTE_3MHz_Nss1,QPSK_1TX

CSE-TX-Port

847.5MHz



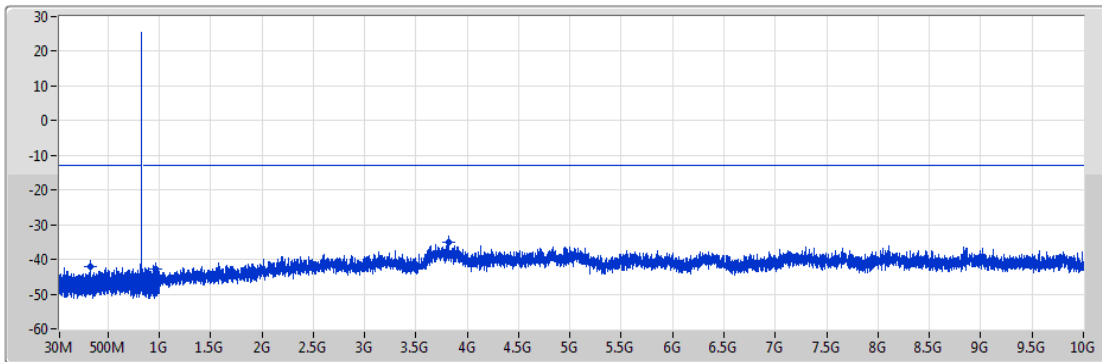
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	584.85M	-41.86	-13.00	-28.86	1	-
949M	1G	1M	3M	Peak	983.45M	-42.48	-13.00	-29.48	1	-
1G	10G	1M	3M	Peak	3.7576G	-35.00	-13.00	-22.00	1	-

Band 5_LTE_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

825.5MHz



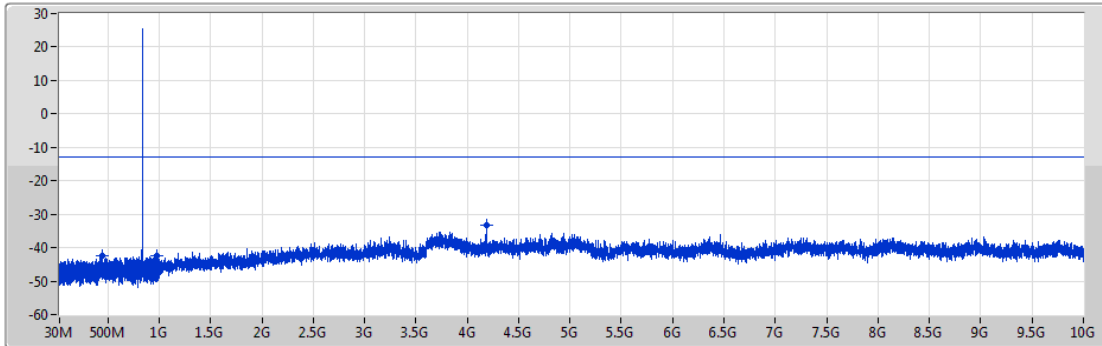
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	331.37M	-42.23	-13.00	-29.23	1	-
949M	1G	1M	3M	Peak	970.8M	-42.76	-13.00	-29.76	1	-
1G	10G	1M	3M	Peak	3.817G	-35.19	-13.00	-22.19	1	-

Band 5_LTE_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

836.5MHz



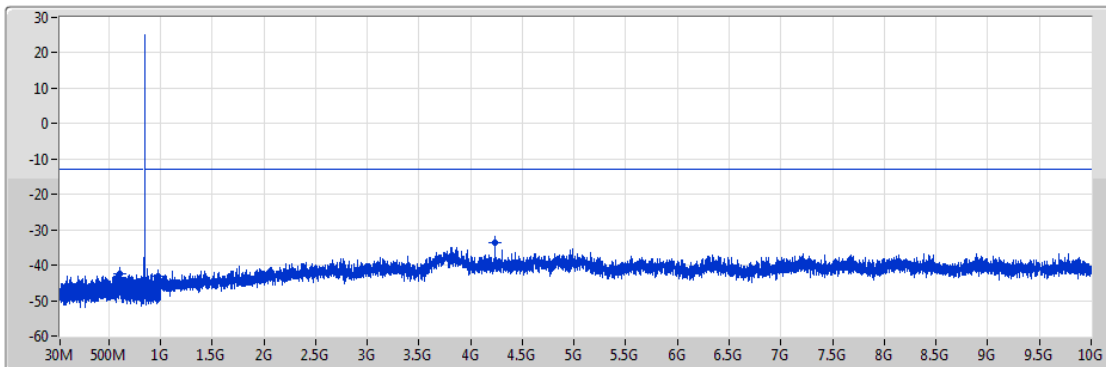
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	441.89M	-42.53	-13.00	-29.53	1	-
949M	1G	1M	3M	Peak	973.89M	-42.31	-13.00	-29.31	1	-
1G	10G	1M	3M	Peak	4.1833G	-33.18	-13.00	-20.18	1	-

Band 5_LTE_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

847.5MHz



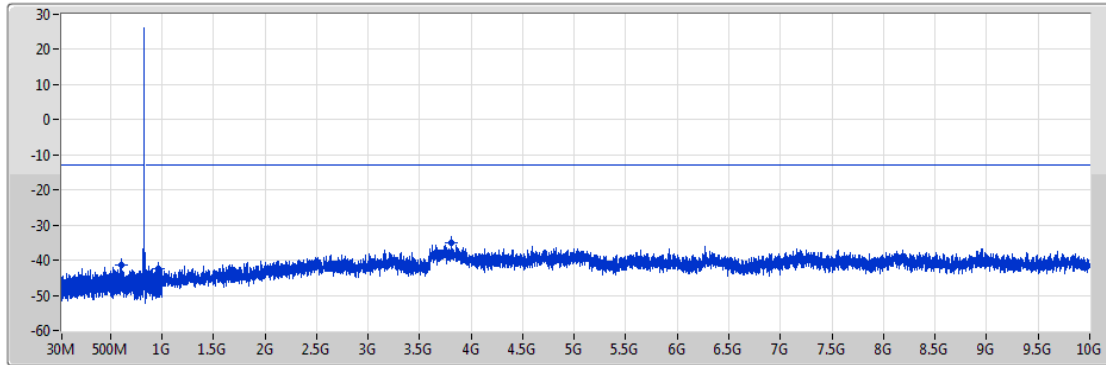
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	610.18M	-42.55	-13.00	-29.55	1	-
949M	1G	1M	3M	Peak	982.92M	-43.05	-13.00	-30.05	1	-
1G	10G	1M	3M	Peak	4.2382G	-33.74	-13.00	-20.74	1	-

Band 5_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

826.5MHz



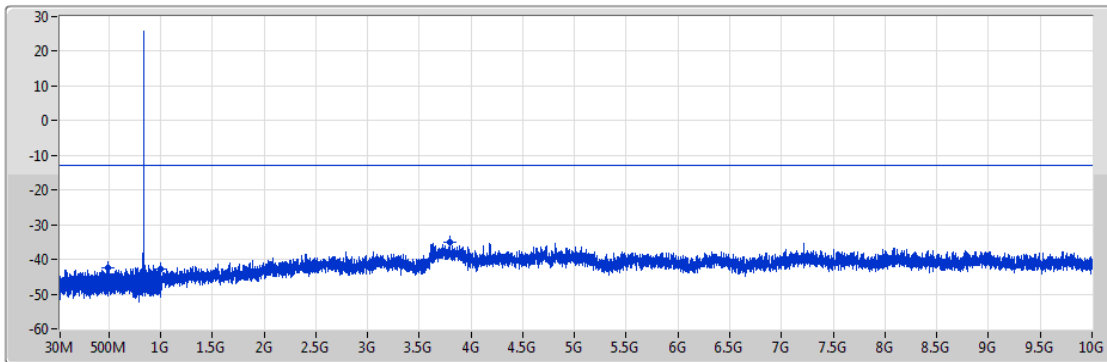
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	601.86M	-41.34	-13.00	-28.34	1	-
949M	1G	1M	3M	Peak	963.46M	-42.33	-13.00	-29.33	1	-
1G	10G	1M	3M	Peak	3.8125G	-35.17	-13.00	-22.17	1	-

Band 5_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

836.5MHz



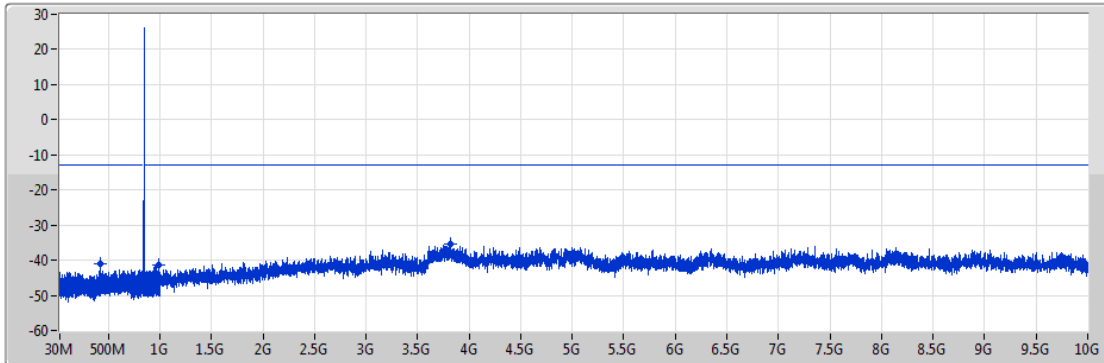
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	490.12M	-42.50	-13.00	-29.50	1	-
949M	1G	1M	3M	Peak	999.54M	-42.66	-13.00	-29.66	1	-
1G	10G	1M	3M	Peak	3.7936G	-34.99	-13.00	-21.99	1	-

Band 5_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

846.5MHz



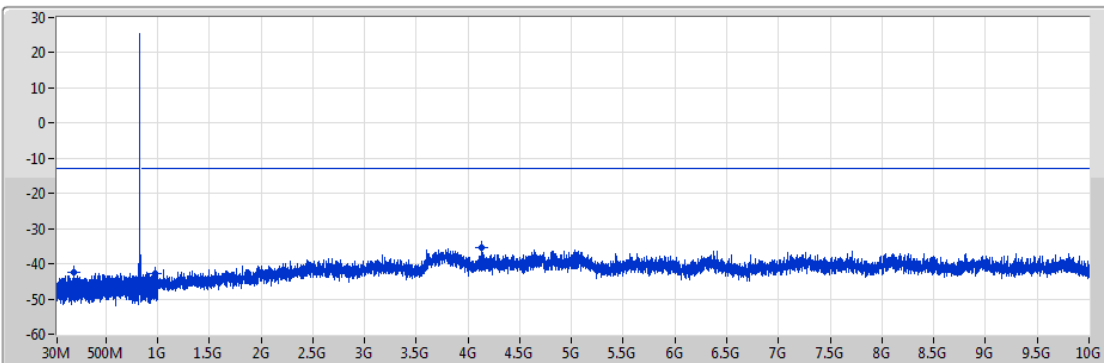
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	426.97M	-41.16	-13.00	-28.16	1	-
949M	1G	1M	3M	Peak	991.41M	-41.47	-13.00	-28.47	1	-
1G	10G	1M	3M	Peak	3.8197G	-35.49	-13.00	-22.49	1	-

Band 5_LTE_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

826.5MHz



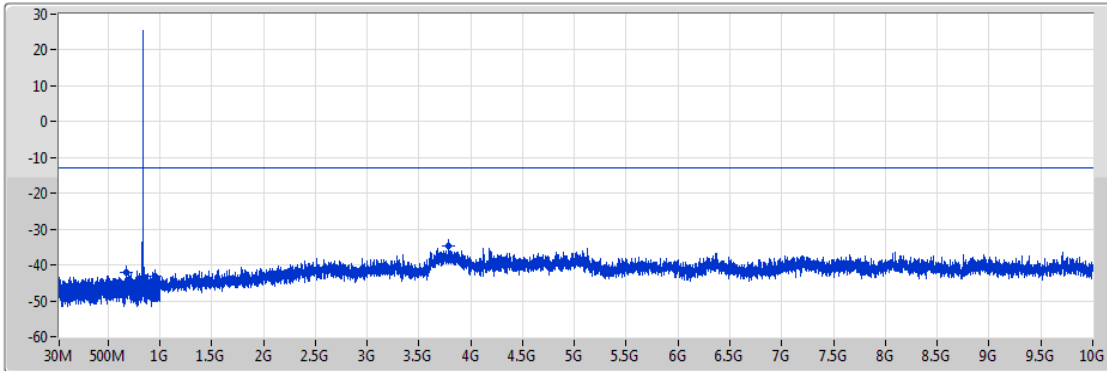
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	189.79M	-42.49	-13.00	-29.49	1	-
949M	1G	1M	3M	Peak	983.02M	-42.61	-13.00	-29.61	1	-
1G	10G	1M	3M	Peak	4.1329G	-35.41	-13.00	-22.41	1	-

Band 5_LTE_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

836.5MHz



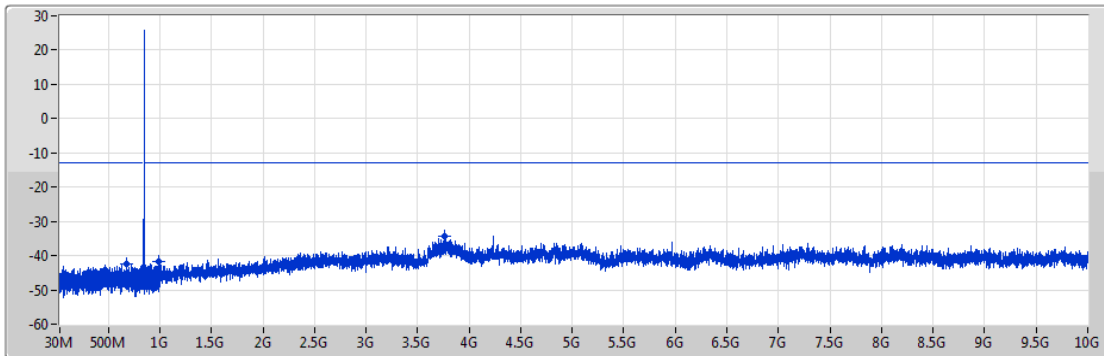
Port1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	682.53M	-42.16	-13.00	-29.16	1	-
949M	1G	1M	3M	Peak	956.06M	-42.96	-13.00	-29.96	1	-
1G	10G	1M	3M	Peak	3.79G	-34.58	-13.00	-21.58	1	-

Band 5_LTE_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

846.5MHz

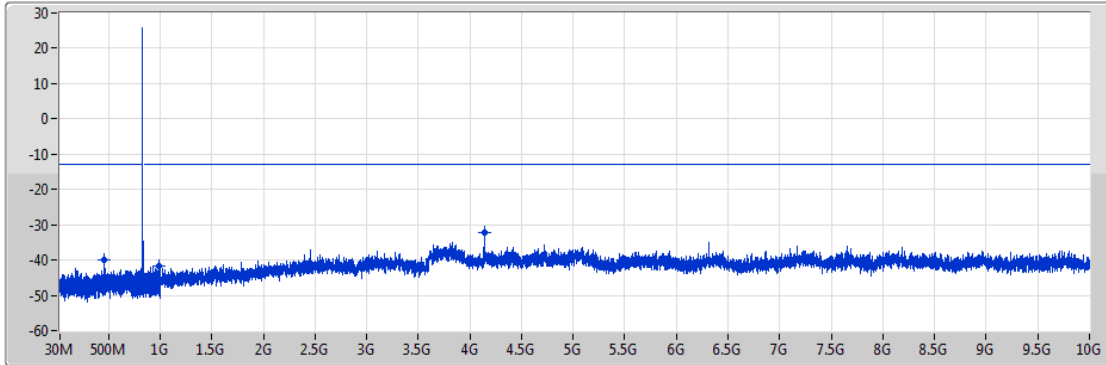



Port1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	673.34M	-42.58	-13.00	-29.58	1	-
949M	1G	1M	3M	Peak	990.79M	-41.72	-13.00	-28.72	1	-
1G	10G	1M	3M	Peak	3.7558G	-34.26	-13.00	-21.26	1	-

Band 5_LTE_10MHz_Nss1,QPSK_1TX
829MHz

CSE-TX-Port

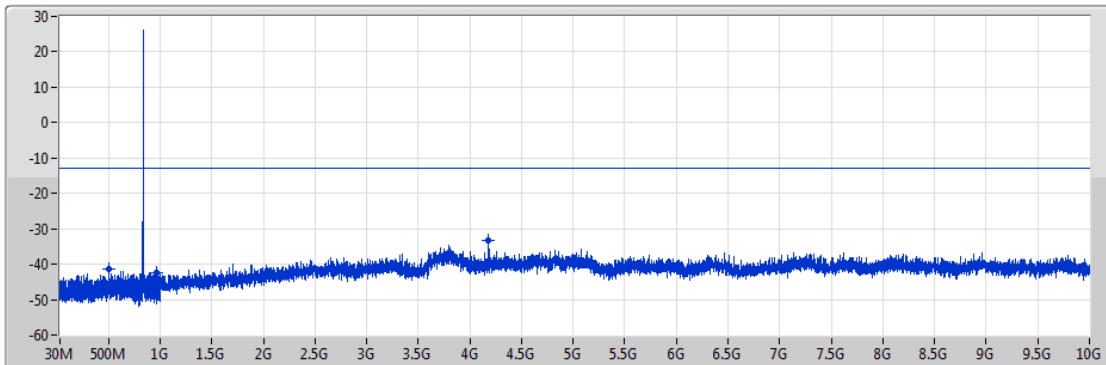



Port1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	460.97M	-40.00	-13.00	-27.00	1	-
949M	1G	1M	3M	Peak	989.83M	-41.87	-13.00	-28.87	1	-
1G	10G	1M	3M	Peak	4.1446G	-32.27	-13.00	-19.27	1	-

Band 5_LTE_10MHz_Nss1,QPSK_1TX
836.5MHz

CSE-TX-Port



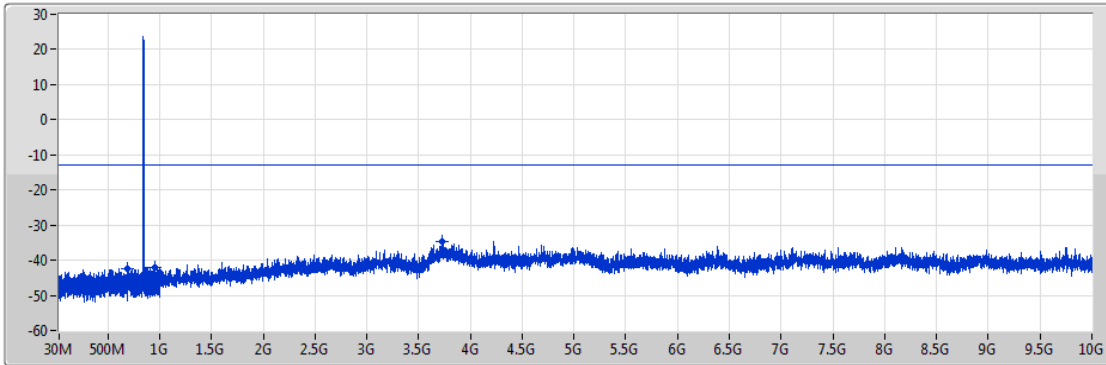
Port1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	500.53M	-41.22	-13.00	-28.22	1	-
949M	1G	1M	3M	Peak	967.64M	-42.40	-13.00	-29.40	1	-
1G	10G	1M	3M	Peak	4.1824G	-33.19	-13.00	-20.19	1	-

Band 5_LTE_10MHz_Nss1,QPSK_1TX

CSE-TX-Port

844MHz



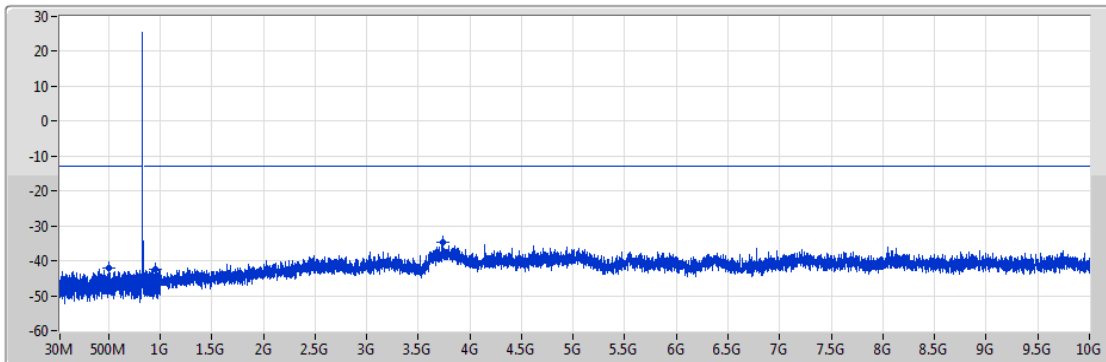
Port1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	691.56M	-42.49	-13.00	-29.49	1	-
949M	1G	1M	3M	Peak	955.43M	-41.97	-13.00	-28.97	1	-
1G	10G	1M	3M	Peak	3.7288G	-34.66	-13.00	-21.66	1	-

Band 5_LTE_10MHz_Nss1,16QAM_1TX

CSE-TX-Port

829MHz

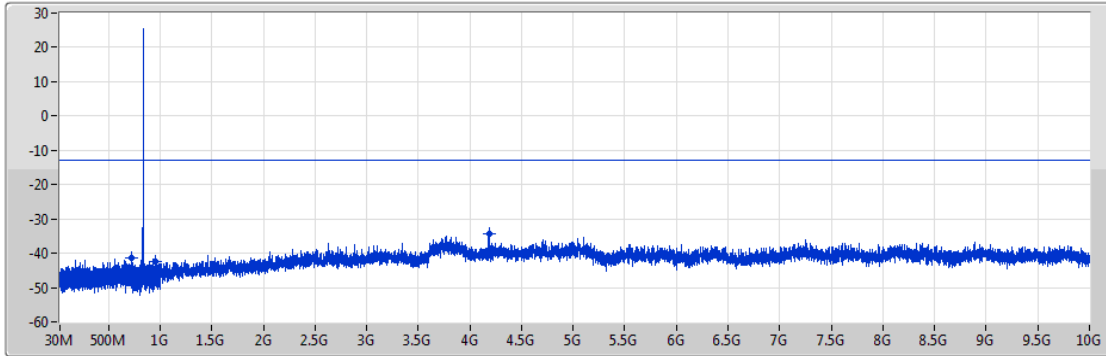



Port1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	507.82M	-42.04	-13.00	-29.04	1	-
949M	1G	1M	3M	Peak	957.8M	-42.31	-13.00	-29.31	1	-
1G	10G	1M	3M	Peak	3.7405G	-34.80	-13.00	-21.80	1	-

Band 5_LTE_10MHz_Nss1,16QAM_1TX
836.5MHz

CSE-TX-Port

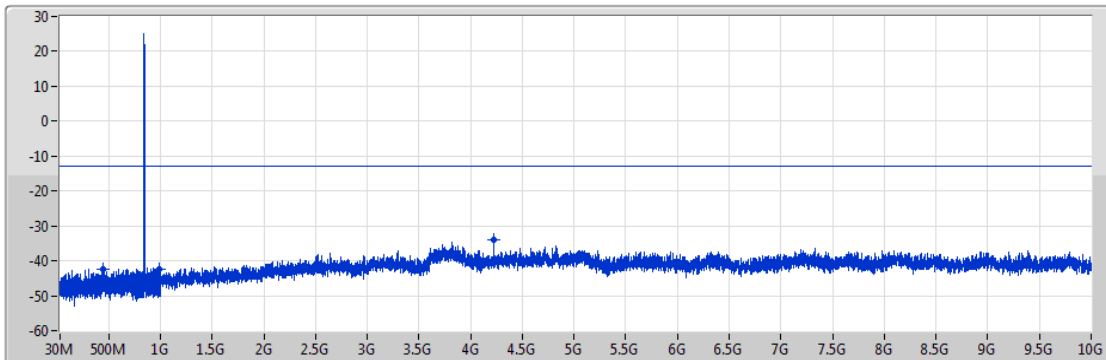



Port1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	719.32M	-41.52	-13.00	-28.52	1	-
949M	1G	1M	3M	Peak	958.59M	-42.56	-13.00	-29.56	1	-
1G	10G	1M	3M	Peak	4.1833G	-34.42	-13.00	-21.42	1	-

Band 5_LTE_10MHz_Nss1,16QAM_1TX
844MHz

CSE-TX-Port



Port1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	724M	1M	3M	Peak	443.28M	-42.30	-13.00	-29.30	1	-
949M	1G	1M	3M	Peak	991.33M	-42.28	-13.00	-29.28	1	-
1G	10G	1M	3M	Peak	4.2193G	-33.83	-13.00	-20.83	1	-

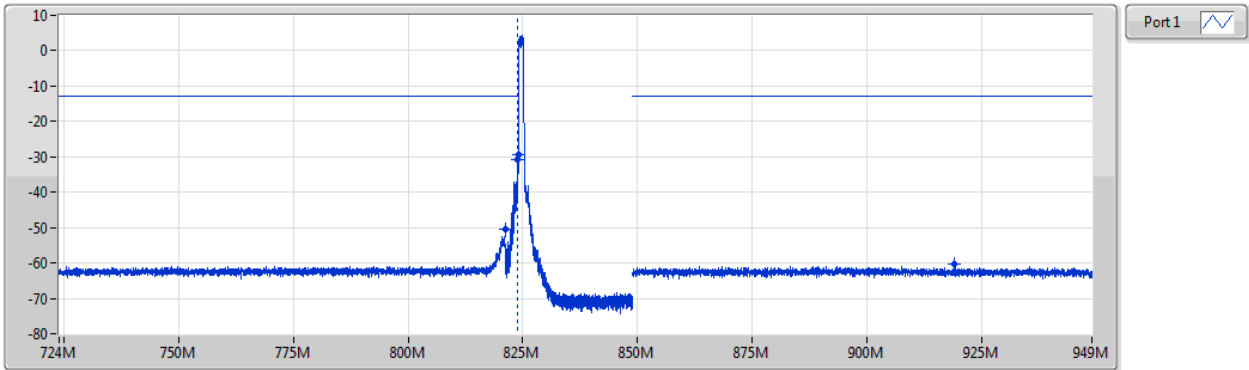
Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port	Remark	Ref.Limit (dB)
Band 5	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	823.9M	824M	15k	47k	RMS	824M	-22.68	-13.00	-9.68	1	-	-
LTE_1.4MHz_Nss1,16QAM_1TX	Pass	823.9M	824M	15k	47k	RMS	823.99M	-22.57	-13.00	-9.57	1	-	-
LTE_3MHz_Nss1,QPSK_1TX	Pass	823.9M	824M	30k	100k	RMS	824M	-19.62	-13.00	-6.62	1	-	-
LTE_3MHz_Nss1,16QAM_1TX	Pass	849M	849.1M	30k	100k	RMS	849M	-20.86	-13.00	-7.86	1	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	849M	849.1M	51k	160k	RMS	849M	-21.00	-13.00	-8.00	1	-	-
LTE_5MHz_Nss1,16QAM_1TX	Pass	823.9M	824M	51k	160k	RMS	824M	-22.37	-13.00	-9.37	1	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	823.9M	824M	100k	300k	RMS	824M	-32.43	-13.00	-19.43	1	-	-
LTE_10MHz_Nss1,16QAM_1TX	Pass	849M	849.1M	100k	300k	RMS	849M	-29.07	-13.00	-16.07	1	-	-

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

824.7MHz_QPSK_RB 6,#RB 0

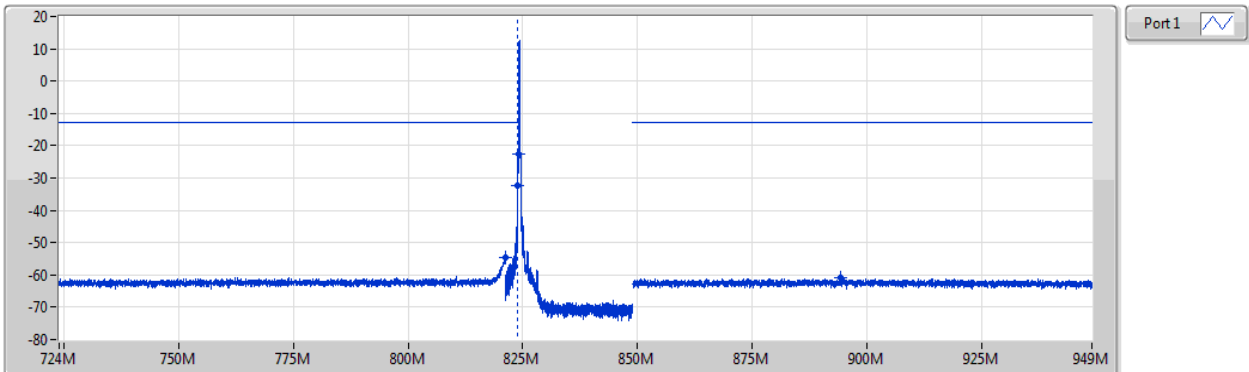


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	821.2M	100k	300k	RMS	821.2M	-50.35	-13.00	-37.35	1	-	-
821.2M	823.9M	15k	47k	RMS	823.85M	-30.62	-13.00	-17.62	1	MBW 100k	-
823.9M	824M	15k	47k	RMS	824M	-29.43	-13.00	-16.43	1	-	-
849M	949M	100k	300k	RMS	918.93M	-60.44	-13.00	-47.44	1	-	-

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

824.7MHz_QPSK_RB 1,#RB 0

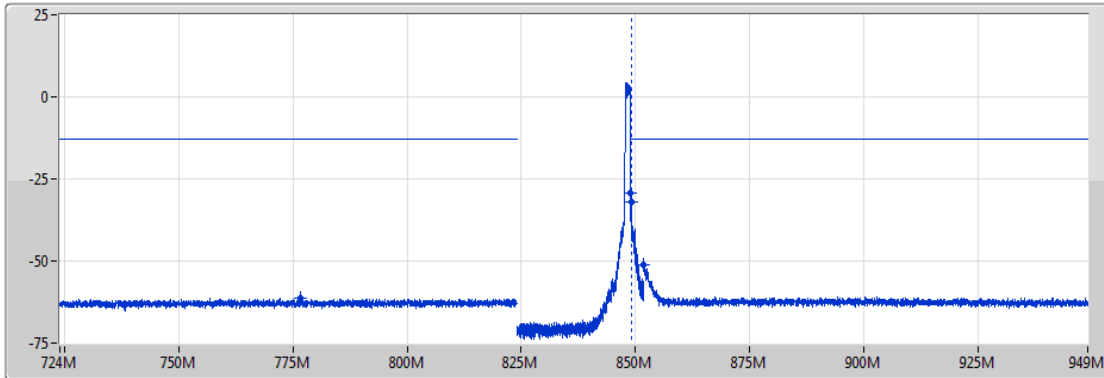


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	821.2M	100k	300k	RMS	821.2M	-54.42	-13.00	-41.42	1	-	-
821.2M	823.9M	15k	47k	RMS	823.85M	-32.39	-13.00	-19.39	1	MBW 100k	-
823.9M	824M	15k	47k	RMS	824M	-22.68	-13.00	-9.68	1	-	-
849M	949M	100k	300k	RMS	894.35M	-60.75	-13.00	-47.75	1	-	-

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

848.3MHz_QPSK_RB 6,#RB 0

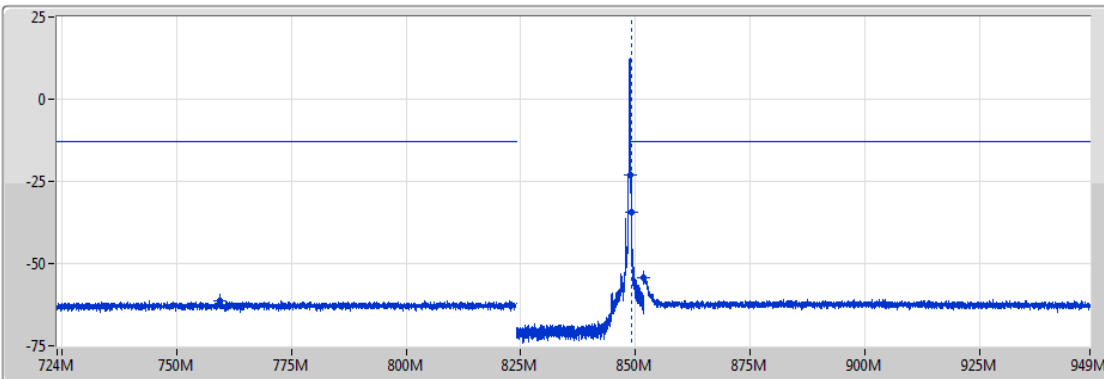


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	776.68M	-61.20	-13.00	-48.20	1	-
849M	849.1M	15k	47k	RMS	849M	-29.30	-13.00	-16.30	1	-
849.1M	851.8M	15k	47k	RMS	849.15M	-31.94	-13.00	-18.94	1	MBW 100k
851.8M	949M	100k	300k	RMS	851.82M	-51.25	-13.00	-38.25	1	-

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

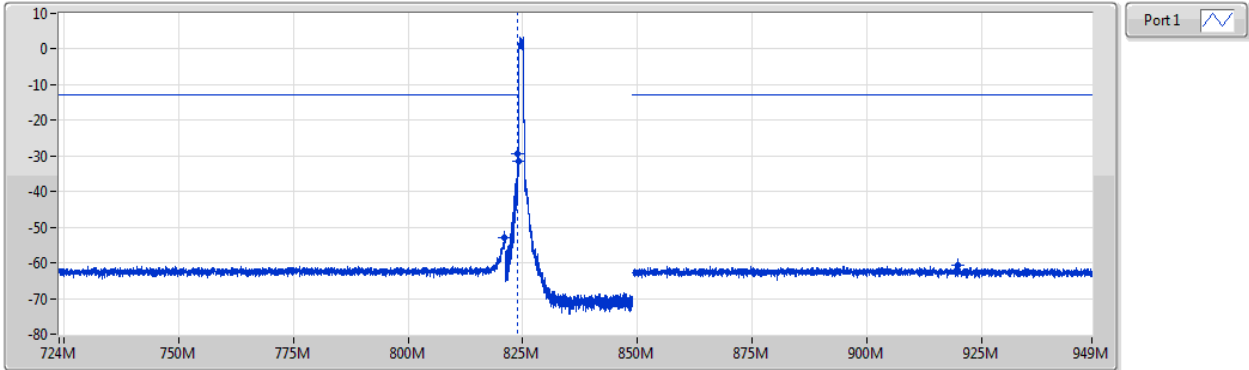
848.3MHz_QPSK_RB 1,#RB 5



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	759.5M	-61.26	-13.00	-48.26	1	-
849M	849.1M	15k	47k	RMS	849.01M	-23.16	-13.00	-10.16	1	-
849.1M	851.8M	15k	47k	RMS	849.15M	-34.18	-13.00	-21.18	1	MBW 100k
851.8M	949M	100k	300k	RMS	851.82M	-54.41	-13.00	-41.41	1	-

Band 5_LTE_1.4MHz_Nss1,16QAM_1TX
824.7MHz_16QAM_RB 6,#RB 0

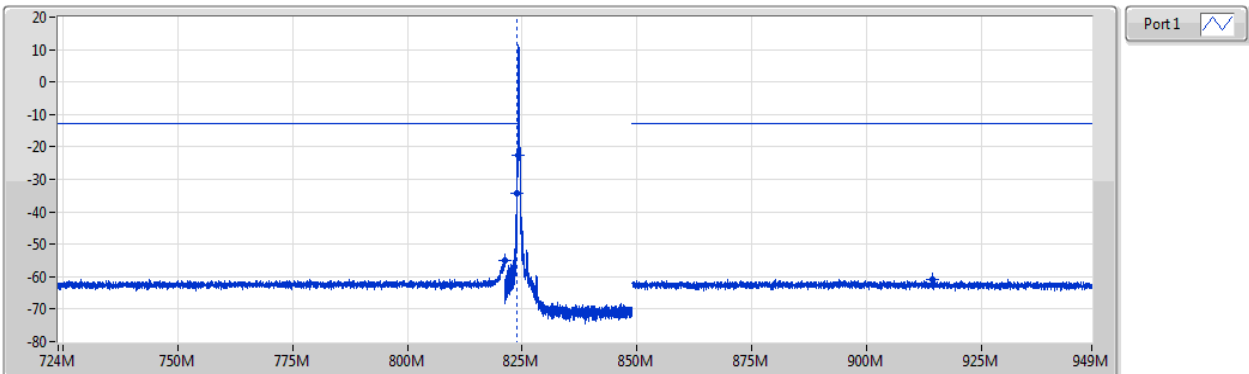
CSE-TX-Port



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	821.2M	100k	300k	RMS	821.08M	-52.96	-13.00	-39.96	1	-	-
821.2M	823.9M	15k	47k	RMS	823.85M	-29.47	-13.00	-16.47	1	MBW 100k	-
823.9M	824M	15k	47k	RMS	824M	-31.52	-13.00	-18.52	1	-	-
849M	949M	100k	300k	RMS	919.78M	-60.70	-13.00	-47.70	1	-	-

Band 5_LTE_1.4MHz_Nss1,16QAM_1TX
824.7MHz_16QAM_RB 1,#RB 0

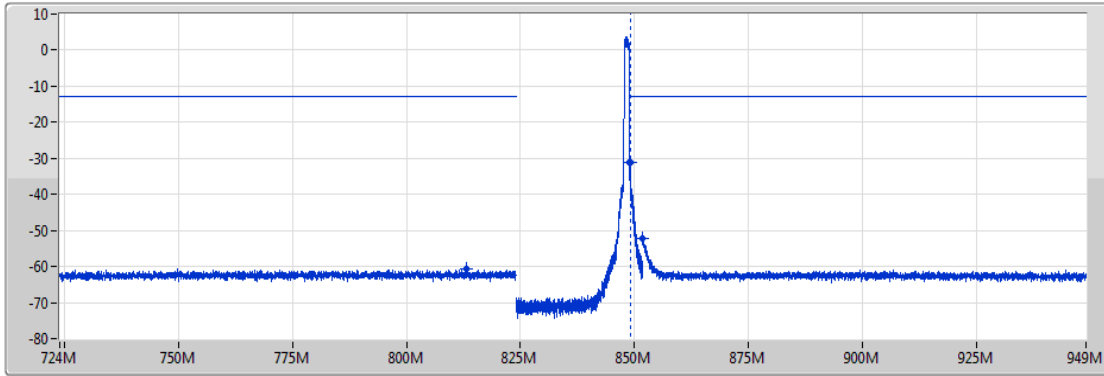
CSE-TX-Port




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	821.2M	100k	300k	RMS	821.18M	-54.99	-13.00	-41.99	1	-	-
821.2M	823.9M	15k	47k	RMS	823.85M	-34.18	-13.00	-21.18	1	MBW 100k	-
823.9M	824M	15k	47k	RMS	823.99M	-22.57	-13.00	-9.57	1	-	-
849M	949M	100k	300k	RMS	914.33M	-60.71	-13.00	-47.71	1	-	-

Band 5_LTE_1.4MHz_Nss1,16QAM_1TX
848.3MHz_16QAM_RB 6,#RB 0

CSE-TX-Port

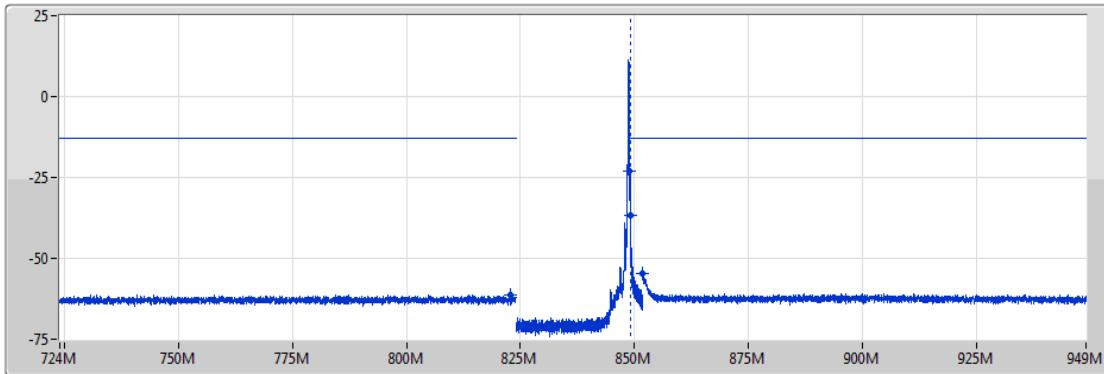



Port 1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	813.2M	-60.53	-13.00	-47.53	1	-
849M	849.1M	15k	47k	RMS	849M	-31.24	-13.00	-18.24	1	-
849.1M	851.8M	15k	47k	RMS	849.15M	-31.28	-13.00	-18.28	1	MBW 100k
851.8M	949M	100k	47k	RMS	851.82M	-52.14	-13.00	-39.14	1	-

Band 5_LTE_1.4MHz_Nss1,16QAM_1TX
848.3MHz_16QAM_RB 1,#RB 5

CSE-TX-Port

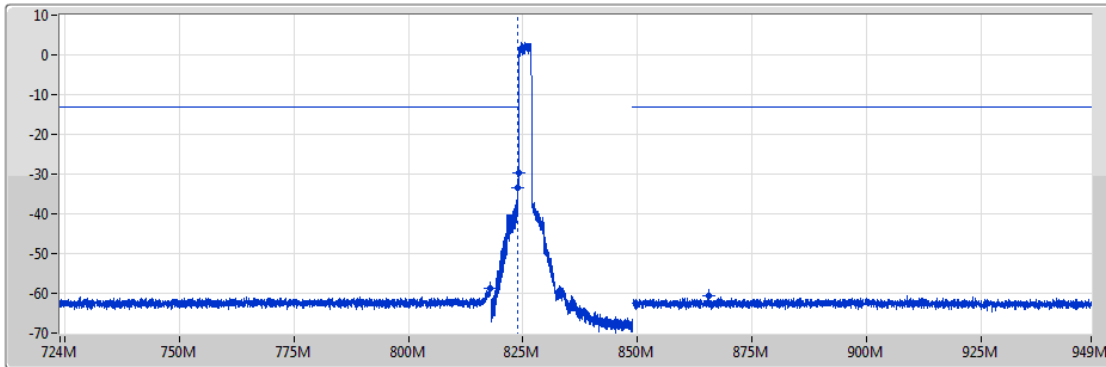



Port 1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	822.78M	-61.20	-13.00	-48.20	1	-
849M	849.1M	15k	47k	RMS	849.01M	-23.04	-13.00	-10.04	1	-
849.1M	851.8M	15k	47k	RMS	849.15M	-36.71	-13.00	-23.71	1	MBW 100k
851.8M	949M	100k	300k	RMS	851.82M	-54.81	-13.00	-41.81	1	-

Band 5_LTE_3MHz_Nss1,QPSK_1TX
825.5MHz_QPSK_RB 15,#RB 0

CSE-TX-Port

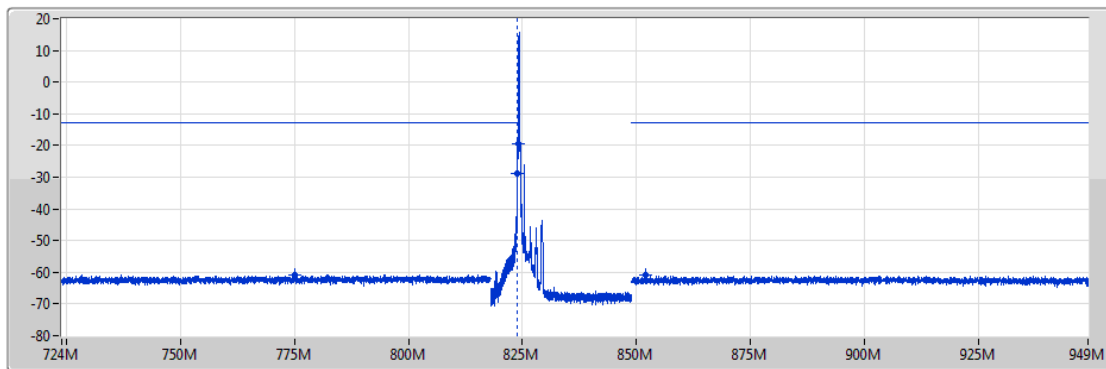



Port 1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	818M	100k	300k	RMS	817.95M	-58.62	-13.00	-45.62	1	-	-
818M	823.9M	30k	100k	RMS	823.85M	-33.37	-13.00	-20.37	1	MBW 100k	-
823.9M	824M	30k	100k	RMS	824M	-29.62	-13.00	-16.62	1	-	-
849M	949M	100k	300k	RMS	865.48M	-60.72	-13.00	-47.72	1	-	-

Band 5_LTE_3MHz_Nss1,QPSK_1TX
825.5MHz_QPSK_RB 1,#RB 0

CSE-TX-Port



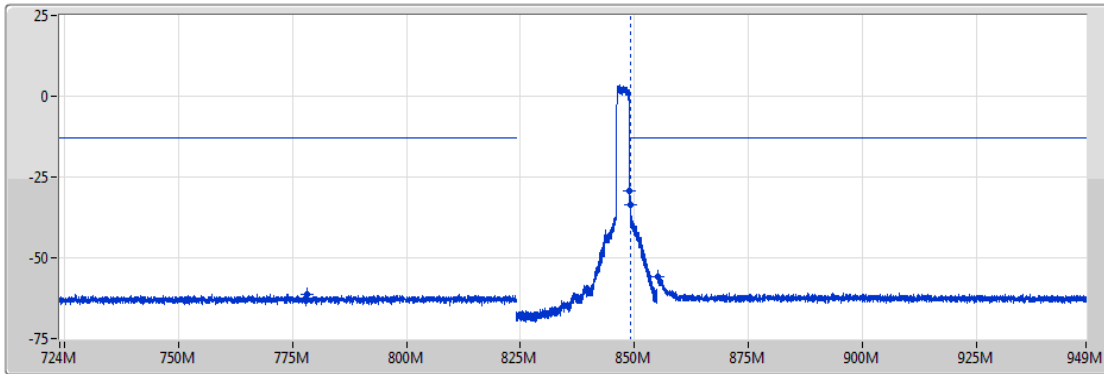
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	818M	100k	300k	RMS	775.07M	-60.85	-13.00	-47.85	1	-	-
818M	823.9M	30k	100k	RMS	823.85M	-28.94	-13.00	-15.94	1	MBW 100k	-
823.9M	824M	30k	100k	RMS	824M	-19.62	-13.00	-6.62	1	-	-
849M	949M	100k	300k	RMS	852.05M	-61.00	-13.00	-48.00	1	-	-

Band 5_LTE_3MHz_Nss1,QPSK_1TX

CSE-TX-Port

847.5MHz_QPSK_RB 15,#RB 0



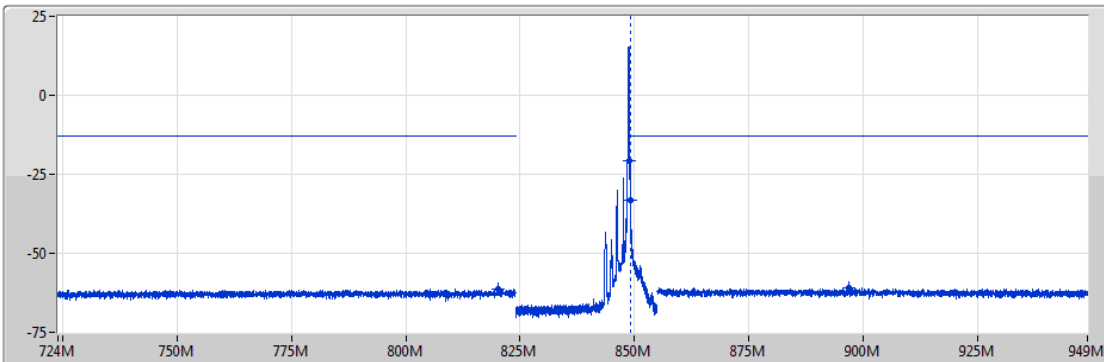
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	778.23M	-61.17	-13.00	-48.17	1	-
849M	849.1M	30k	100k	RMS	849M	-29.25	-13.00	-16.25	1	-
849.1M	855M	30k	100k	RMS	849.15M	-33.73	-13.00	-20.73	1	MBW 100k
855M	949M	100k	300k	RMS	855.05M	-55.69	-13.00	-42.69	1	-

Band 5_LTE_3MHz_Nss1,QPSK_1TX

CSE-TX-Port

847.5MHz_QPSK_RB 1,#RB 14



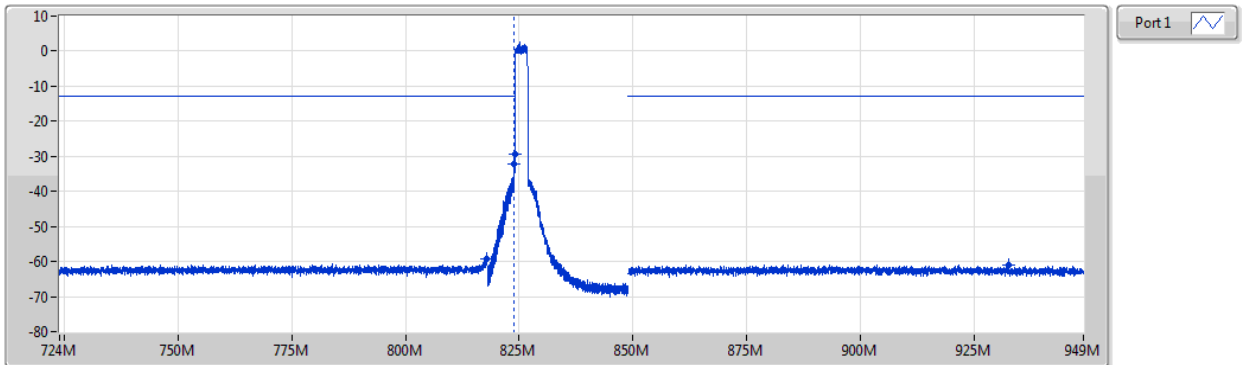
Port 1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	820.28M	-61.22	-13.00	-48.22	1	-
849M	849.1M	30k	100k	RMS	849M	-20.66	-13.00	-7.66	1	-
849.1M	855M	30k	100k	RMS	849.15M	-33.03	-13.00	-20.03	1	MBW 100k
855M	949M	100k	300k	RMS	896.81M	-60.75	-13.00	-47.75	1	-

Band 5_LTE_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

825.5MHz_16QAM_RB 15,#RB 0

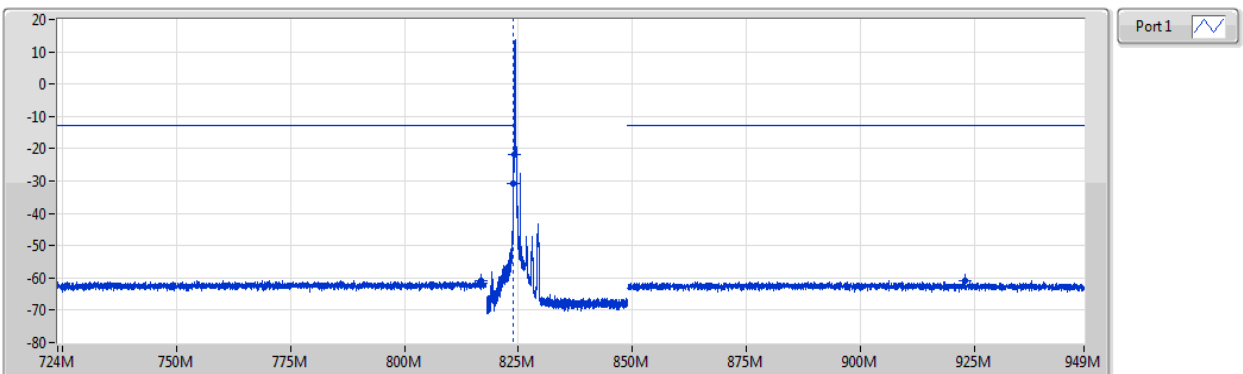


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	818M	100k	300k	RMS	817.98M	-59.13	-13.00	-46.13	1	-	-
818M	823.9M	30k	100k	RMS	823.85M	-32.32	-13.00	-19.32	1	MBW 100k	-
823.9M	824M	30k	100k	RMS	824M	-29.21	-13.00	-16.21	1	-	-
849M	949M	100k	300k	RMS	932.63M	-60.96	-13.00	-47.96	1	-	-

Band 5_LTE_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

825.5MHz_16QAM_RB 1,#RB 0

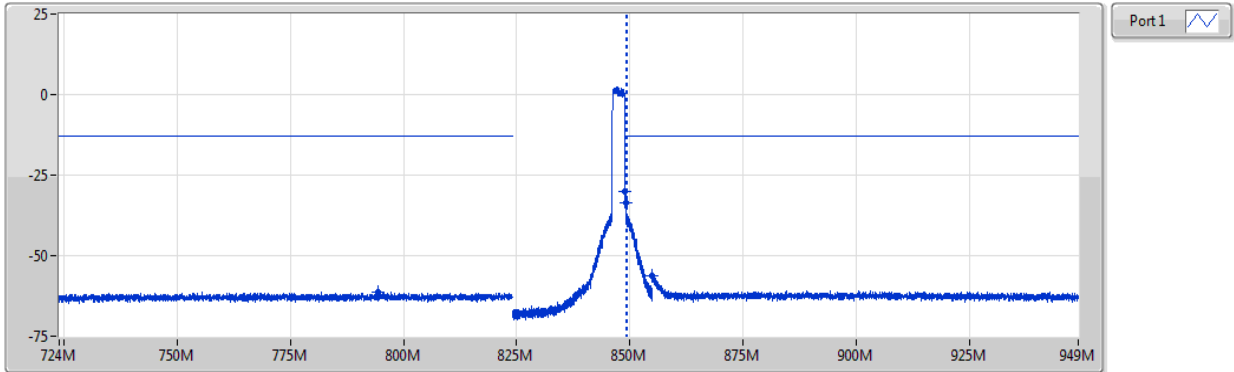


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	818M	100k	300k	RMS	816.85M	-60.79	-13.00	-47.79	1	-	-
818M	823.9M	30k	100k	RMS	823.85M	-30.83	-13.00	-17.83	1	MBW 100k	-
823.9M	824M	30k	100k	RMS	824M	-21.64	-13.00	-8.64	1	-	-
849M	949M	100k	300k	RMS	922.93M	-60.73	-13.00	-47.73	1	-	-

Band 5_LTE_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

847.5MHz_16QAM_RB 15,#RB 0

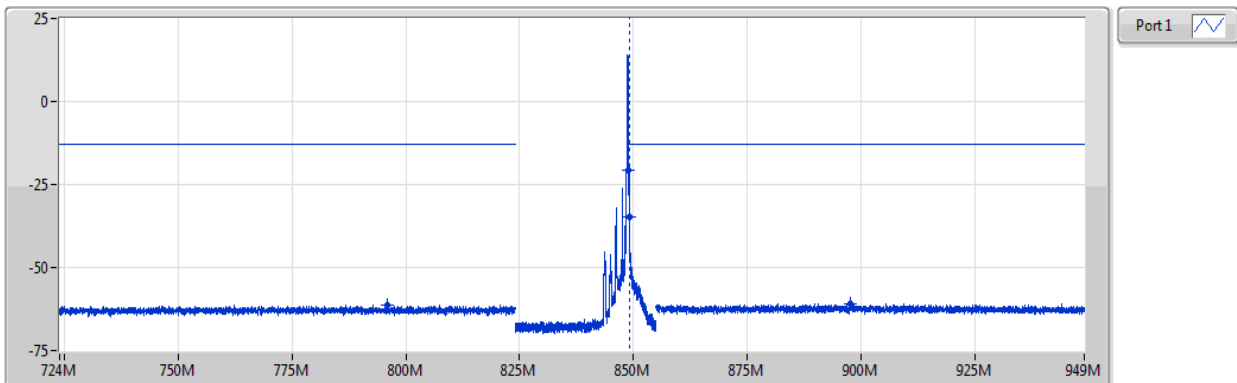


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	794.48M	-61.34	-13.00	-48.34	1	-
849M	849.1M	30k	100k	RMS	849M	-30.09	-13.00	-17.09	1	-
849.1M	855M	30k	100k	RMS	849.25M	-33.43	-13.00	-20.43	1	MBW 100k
855M	949M	100k	300k	RMS	855M	-56.14	-13.00	-43.14	1	-

Band 5_LTE_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

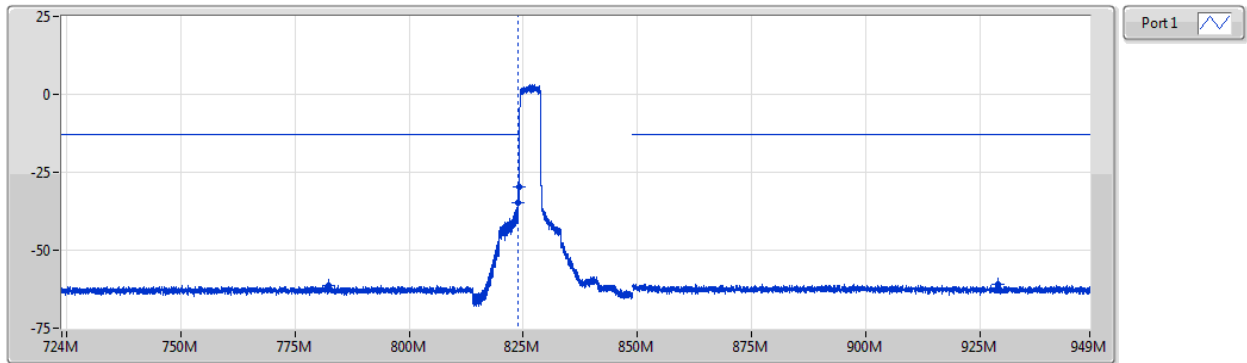
847.5MHz_16QAM_RB 1,#RB 14



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	795.85M	-61.33	-13.00	-48.33	1	-
849M	849.1M	30k	100k	RMS	849M	-20.86	-13.00	-7.86	1	-
849.1M	855M	30k	100k	RMS	849.15M	-34.92	-13.00	-21.92	1	MBW 100k
855M	949M	100k	300k	RMS	897.72M	-60.86	-13.00	-47.86	1	-

Band 5_LTE_5MHz_Nss1,QPSK_1TX
826.5MHz_QPSK_RB 25,#RB 0

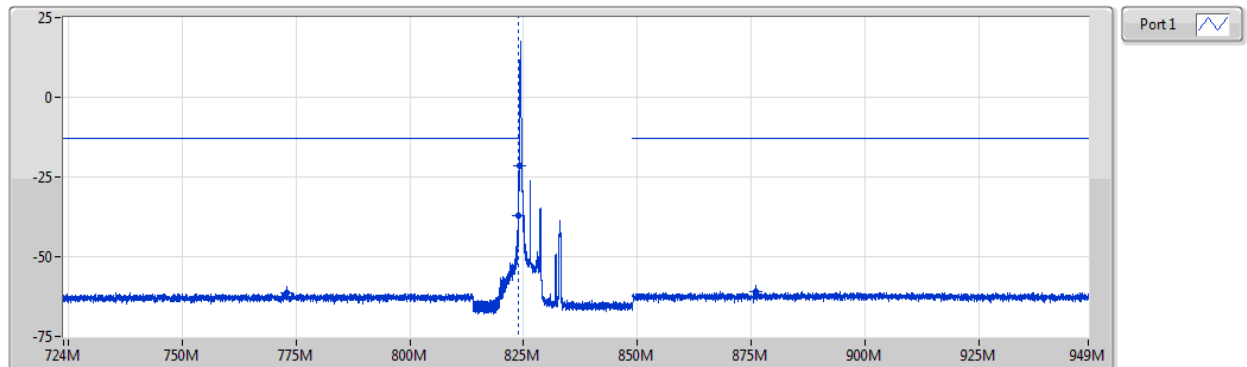
CSE-TX-Port



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	814M	100k	300k	RMS	782.28M	-61.34	-13.00	-48.34	1	-	-
814M	823.9M	51k	160k	RMS	823.85M	-34.87	-13.00	-21.87	1	MBW 100k	-
823.9M	824M	51k	160k	RMS	824M	-29.74	-13.00	-16.74	1	-	-
849M	949M	100k	300k	RMS	928.98M	-60.77	-13.00	-47.77	1	-	-

Band 5_LTE_5MHz_Nss1,QPSK_1TX
826.5MHz_QPSK_RB 1,#RB 0

CSE-TX-Port

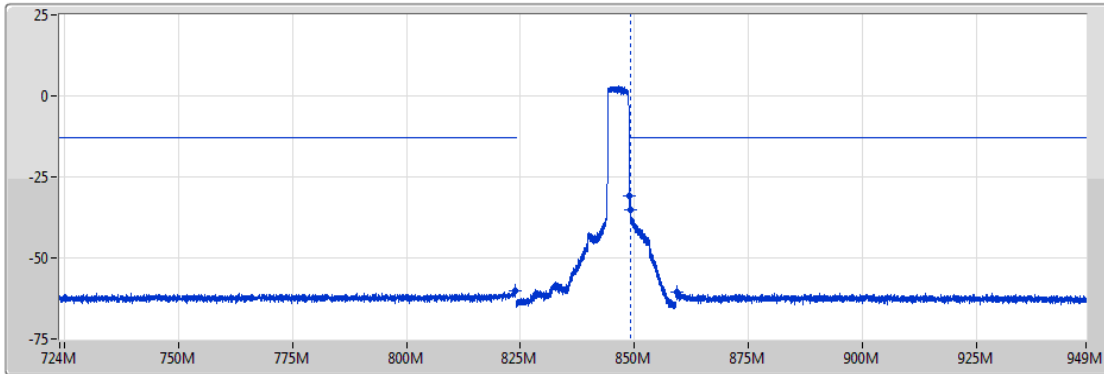



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	814M	100k	300k	RMS	773.14M	-61.45	-13.00	-48.45	1	-	-
814M	823.9M	51k	160k	RMS	823.85M	-37.04	-13.00	-24.04	1	MBW 100k	-
823.9M	824M	51k	160k	RMS	824M	-21.49	-13.00	-8.49	1	-	-
849M	949M	100k	300k	RMS	875.98M	-60.95	-13.00	-47.95	1	-	-

Band 5_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

846.5MHz_QPSK_RB 25,#RB 0



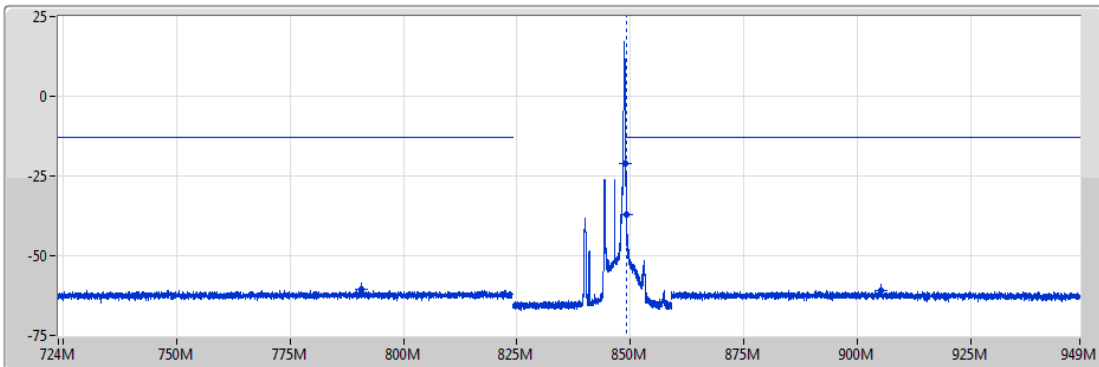
Port 1 


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	823.93M	-60.12	-13.00	-47.12	1	-
849M	849.1M	51k	160k	RMS	849M	-30.68	-13.00	-17.68	1	-
849.1M	859M	51k	160k	RMS	849.15M	-34.99	-13.00	-21.99	1	MBW 100k
859M	949M	100k	300k	RMS	859.27M	-60.71	-13.00	-47.71	1	-

Band 5_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

846.5MHz_QPSK_RB 1,#RB 24



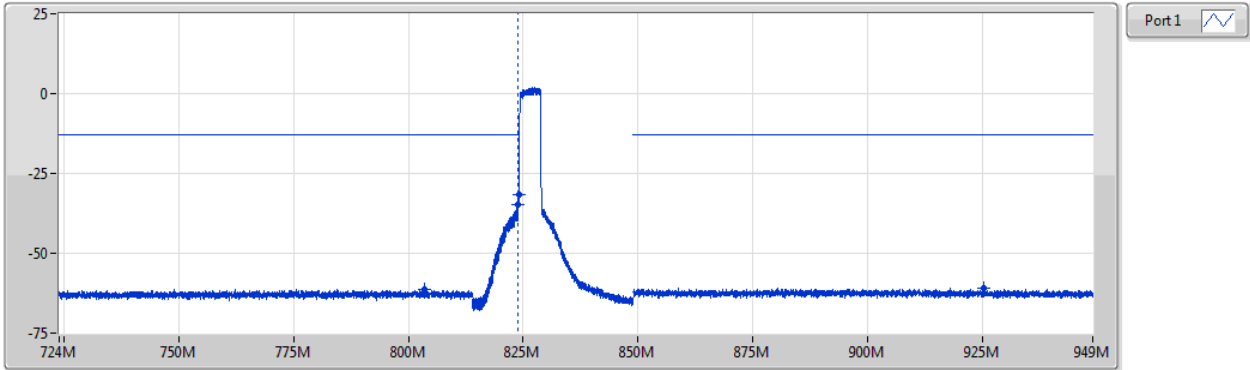
Port 1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	790.73M	-60.73	-13.00	-47.73	1	-
849M	849.1M	51k	160k	RMS	849M	-21.00	-13.00	-8.00	1	-
849.1M	859M	51k	160k	RMS	849.15M	-37.09	-13.00	-24.09	1	MBW 100k
859M	949M	100k	300k	RMS	905.1M	-60.75	-13.00	-47.75	1	-

Band 5_LTE_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

826.5MHz_16QAM_RB 25,#RB 0

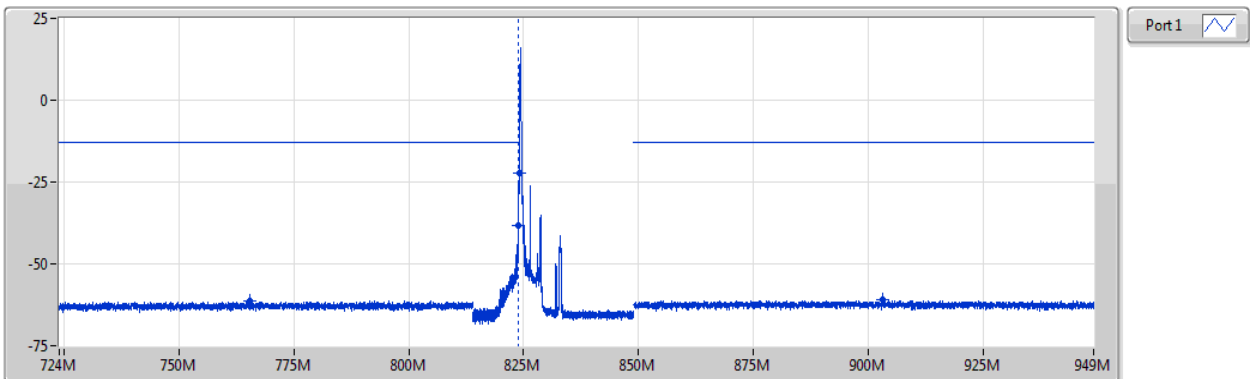


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	814M	100k	300k	RMS	803.45M	-61.33	-13.00	-48.33	1	-	-
814M	823.9M	51k	160k	RMS	823.85M	-34.77	-13.00	-21.77	1	MBW 100k	-
823.9M	824M	51k	160k	RMS	824M	-31.49	-13.00	-18.49	1	-	-
849M	949M	100k	300k	RMS	925.25M	-60.85	-13.00	-47.85	1	-	-

Band 5_LTE_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

826.5MHz_16QAM_RB 1,#RB 0

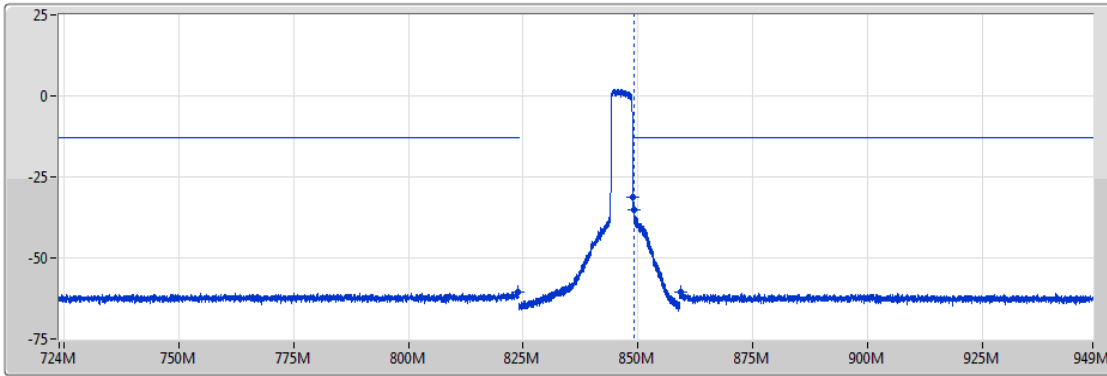


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	814M	100k	300k	RMS	765.47M	-61.40	-13.00	-48.40	1	-	-
814M	823.9M	51k	160k	RMS	823.85M	-38.23	-13.00	-25.23	1	MBW 100k	-
823.9M	824M	51k	160k	RMS	824M	-22.37	-13.00	-9.37	1	-	-
849M	949M	100k	300k	RMS	903.15M	-61.08	-13.00	-48.08	1	-	-

Band 5_LTE_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

846.5MHz_16QAM_RB 25,#RB 0

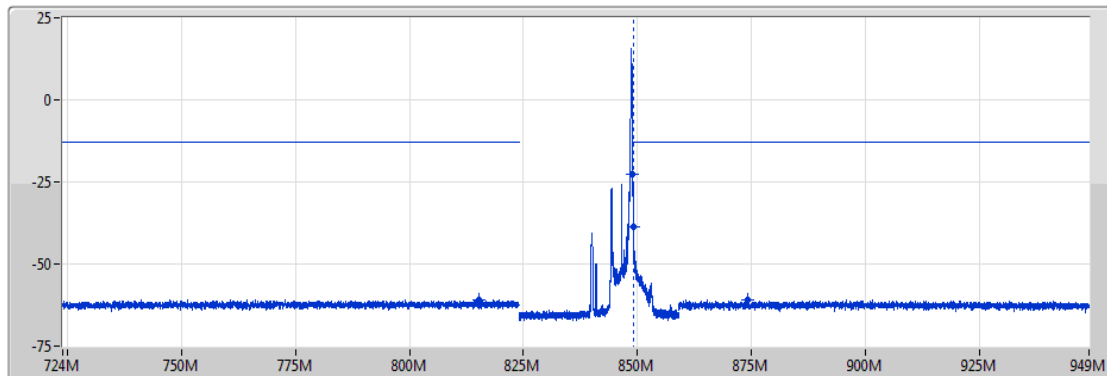


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	823.83M	-60.62	-13.00	-47.62	1	-
849M	849.1M	51k	160k	RMS	849M	-31.24	-13.00	-18.24	1	-
849.1M	859M	51k	160k	RMS	849.15M	-35.30	-13.00	-22.30	1	MBW 100k
859M	949M	100k	300k	RMS	859.36M	-60.64	-13.00	-47.64	1	-

Band 5_LTE_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

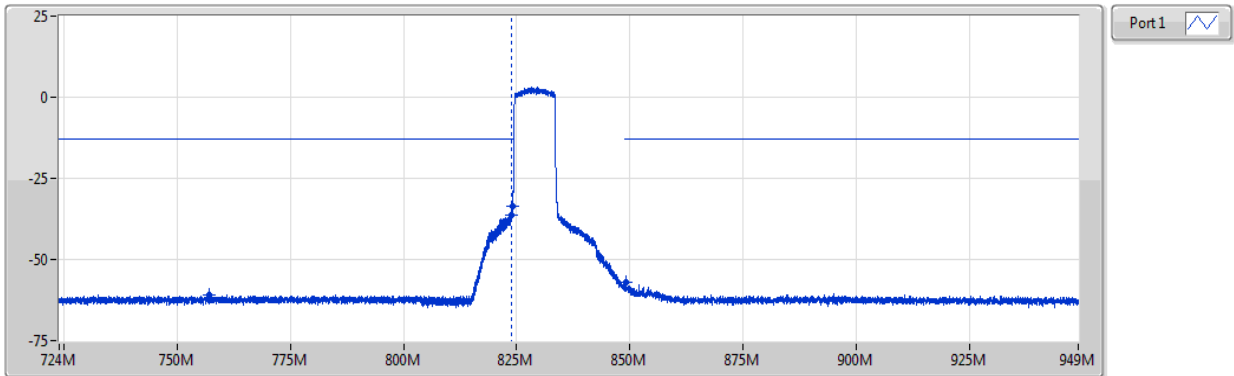
846.5MHz_16QAM_RB 1,#RB 24



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	815.2M	-60.75	-13.00	-47.75	1	-
849M	849.1M	51k	160k	RMS	849M	-22.83	-13.00	-9.83	1	-
849.1M	859M	51k	160k	RMS	849.15M	-38.65	-13.00	-25.65	1	MBW 100k
859M	949M	100k	300k	RMS	874.08M	-60.81	-13.00	-47.81	1	-

Band 5_LTE_10MHz_Nss1,QPSK_1TX
829MHz_QPSK_RB 50,#RB 0

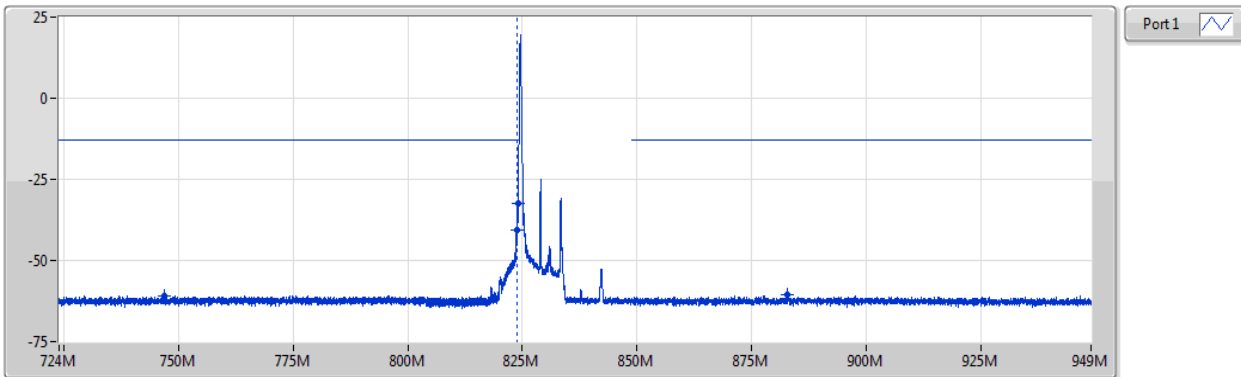
CSE-TX-Port



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	804M	100k	300k	RMS	757.18M	-60.94	-13.00	-47.94	1	-	-
804M	823.9M	100k	300k	RMS	823.85M	-36.50	-13.00	-23.50	1	MBW 100k	-
823.9M	824M	100k	300k	RMS	824M	-33.64	-13.00	-20.64	1	-	-
849M	949M	100k	300k	RMS	849.23M	-57.12	-13.00	-44.12	1	-	-

Band 5_LTE_10MHz_Nss1,QPSK_1TX
829MHz_QPSK_RB 1,#RB 0

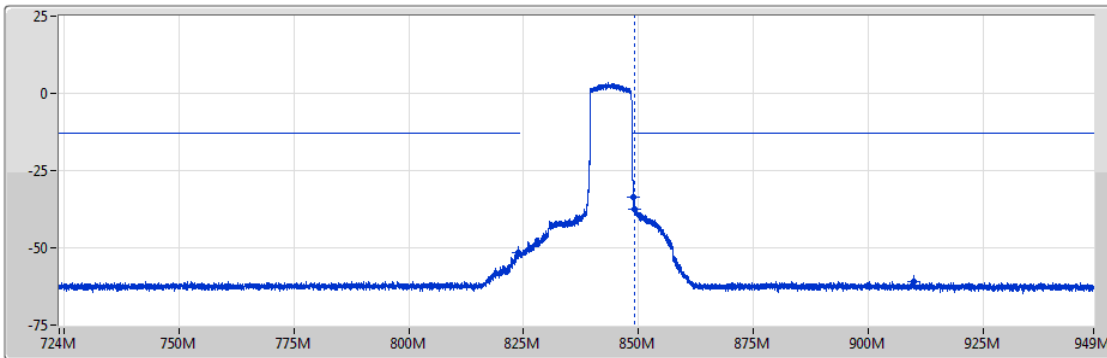
CSE-TX-Port




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	804M	100k	300k	RMS	746.96M	-60.86	-13.00	-47.86	1	-	-
804M	823.9M	100k	300k	RMS	823.85M	-40.58	-13.00	-27.58	1	MBW 100k	-
823.9M	824M	100k	300k	RMS	824M	-32.43	-13.00	-19.43	1	-	-
849M	949M	100k	300k	RMS	882.73M	-60.61	-13.00	-47.61	1	-	-

Band 5_LTE_10MHz_Nss1,QPSK_1TX
844MHz_QPSK_RB 50,#RB 0

CSE-TX-Port

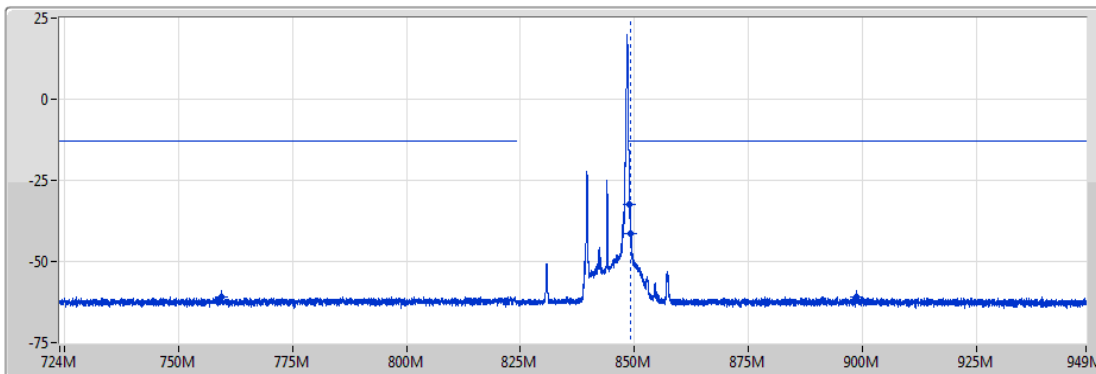



Port 1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	823.9M	-51.63	-13.00	-38.63	1	-
849M	849.1M	100k	300k	RMS	849M	-33.43	-13.00	-20.43	1	-
849.1M	869M	100k	300k	RMS	849.15M	-37.53	-13.00	-24.53	1	MBW 100k
869M	949M	100k	300k	RMS	909.82M	-60.89	-13.00	-47.89	1	-

Band 5_LTE_10MHz_Nss1,QPSK_1TX
844MHz_QPSK_RB 1,#RB 49

CSE-TX-Port

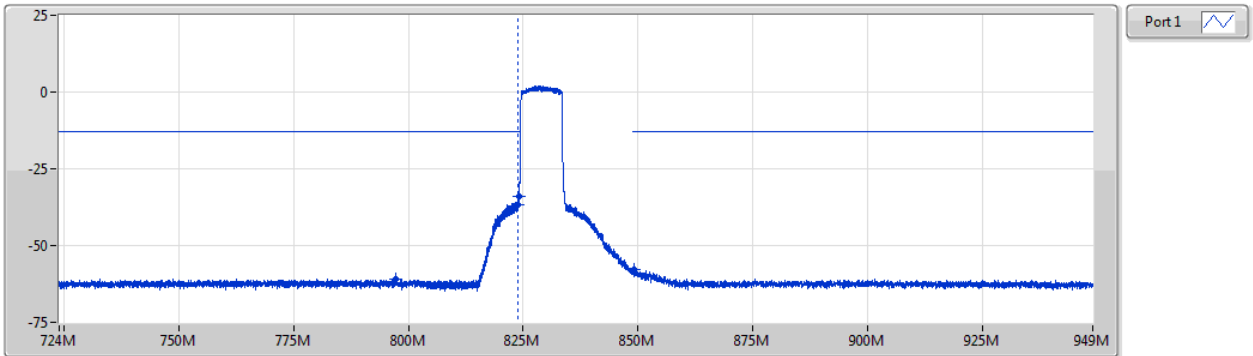


Port 1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	759.43M	-60.88	-13.00	-47.88	1	-
849M	849.1M	100k	300k	RMS	849M	-32.58	-13.00	-19.58	1	-
849.1M	869M	100k	300k	RMS	849.15M	-41.33	-13.00	-28.33	1	MBW 100k
869M	949M	100k	300k	RMS	898.68M	-60.87	-13.00	-47.87	1	-

Band 5_LTE_10MHz_Nss1,16QAM_1TX
829MHz_16QAM_RB 50,#RB 0

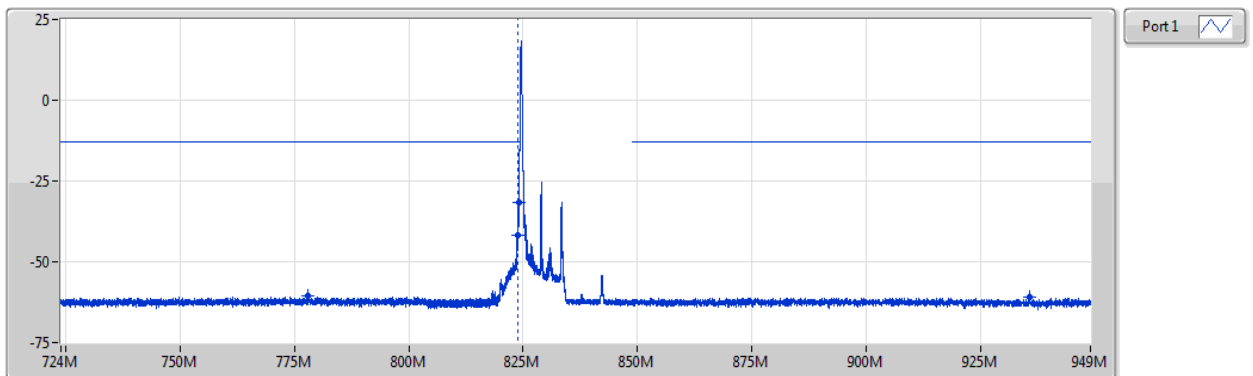
CSE-TX-Port



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	804M	100k	300k	RMS	797.26M	-60.90	-13.00	-47.90	1	-	-
804M	823.9M	100k	300k	RMS	823.85M	-36.79	-13.00	-23.79	1	MBW 100k	-
823.9M	824M	100k	300k	RMS	824M	-34.16	-13.00	-21.16	1	-	-
849M	949M	100k	300k	RMS	849.18M	-57.68	-13.00	-44.68	1	-	-

Band 5_LTE_10MHz_Nss1,16QAM_1TX
829MHz_16QAM_RB 1,#RB 0

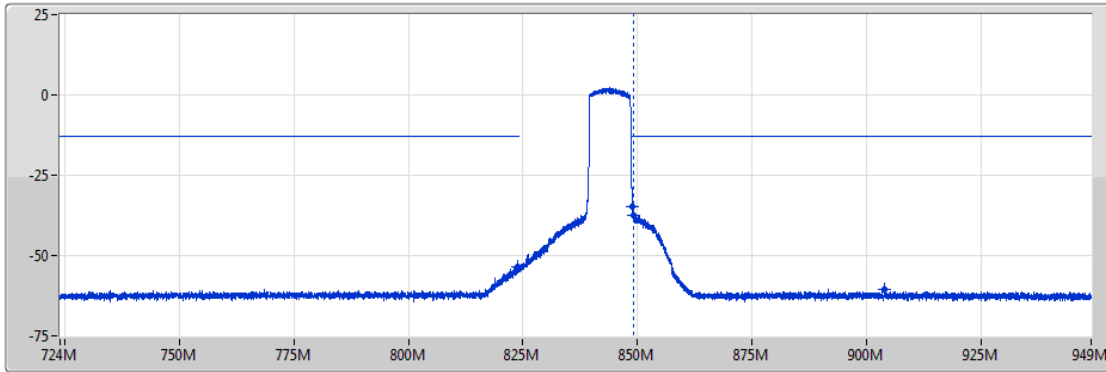
CSE-TX-Port




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
724M	804M	100k	300k	RMS	778.04M	-60.74	-13.00	-47.74	1	-	-
804M	823.9M	100k	300k	RMS	823.85M	-41.90	-13.00	-28.90	1	MBW 100k	-
823.9M	824M	100k	300k	RMS	824M	-31.80	-13.00	-18.80	1	-	-
849M	949M	100k	300k	RMS	935.7M	-60.98	-13.00	-47.98	1	-	-

Band 5_LTE_10MHz_Nss1,16QAM_1TX
844MHz_16QAM_RB 50,#RB 0

CSE-TX-Port

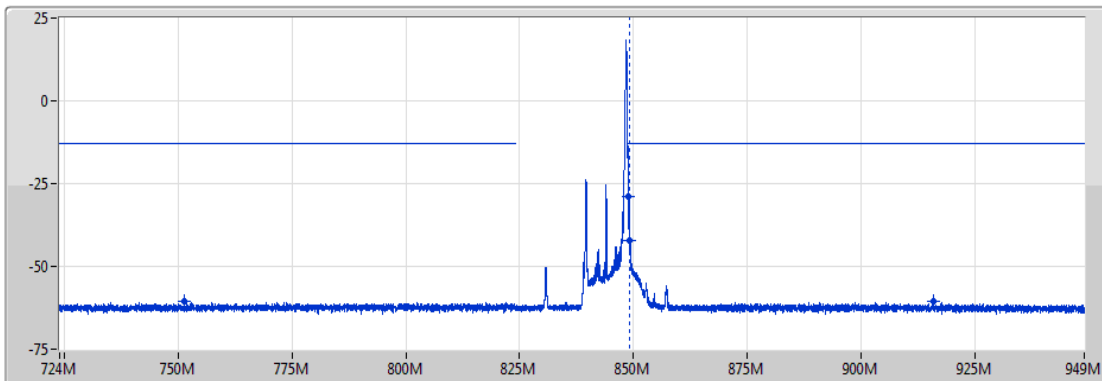



Port 1 

F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	823.9M	-53.39	-13.00	-40.39	1	-
849M	849.1M	100k	300k	RMS	849M	-34.82	-13.00	-21.82	1	-
849.1M	869M	100k	300k	RMS	849.15M	-37.61	-13.00	-24.61	1	MBW 100k
869M	949M	100k	300k	RMS	903.94M	-60.68	-13.00	-47.68	1	-

Band 5_LTE_10MHz_Nss1,16QAM_1TX
844MHz_16QAM_RB 1,#RB 49

CSE-TX-Port



Port 1 

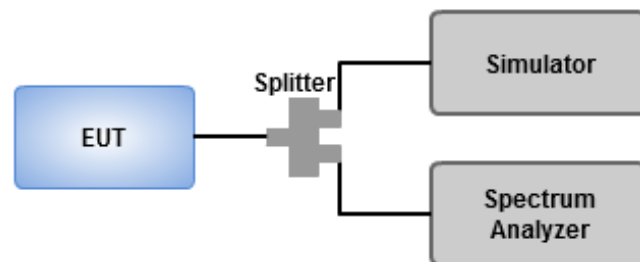
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
724M	824M	100k	300k	RMS	751.43M	-60.73	-13.00	-47.73	1	-
849M	849.1M	100k	300k	RMS	849M	-29.07	-13.00	-16.07	1	-
849.1M	869M	100k	300k	RMS	849.15M	-42.25	-13.00	-29.25	1	MBW 100k
869M	949M	100k	300k	RMS	915.78M	-60.57	-13.00	-47.57	1	-

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 Bandwidth

Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
850	-	-	-	-	-
GSM_200kHz_Nss1_1TX	321.25k	247.526k	248KGXW	312k	244.848k

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

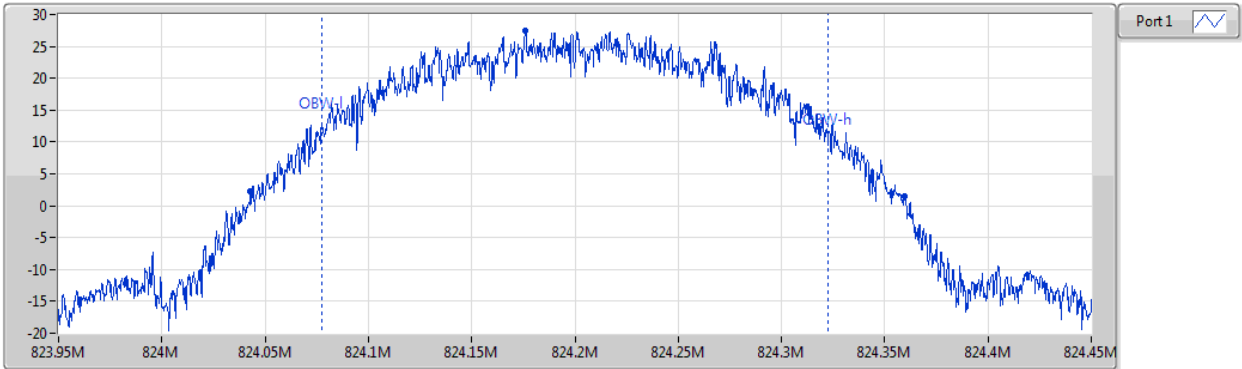
Result

Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)
850_GSM_200kHz_Nss1_1TX	-	-	-	-
824.2MHz	Pass	Inf	317k	244.848k
836.4MHz	Pass	Inf	312k	247.526k
848.8MHz	Pass	Inf	321.25k	246.478k

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

EBW

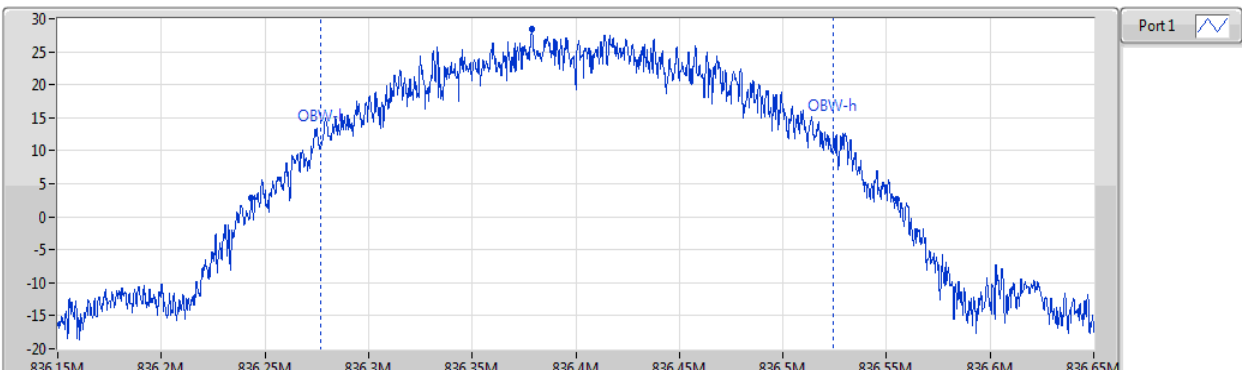
824.2MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
317k	824.04275M	824.35975M	244.848k	824.077693M	824.322541M	1	824.2M	500k	10k	30k

EBW

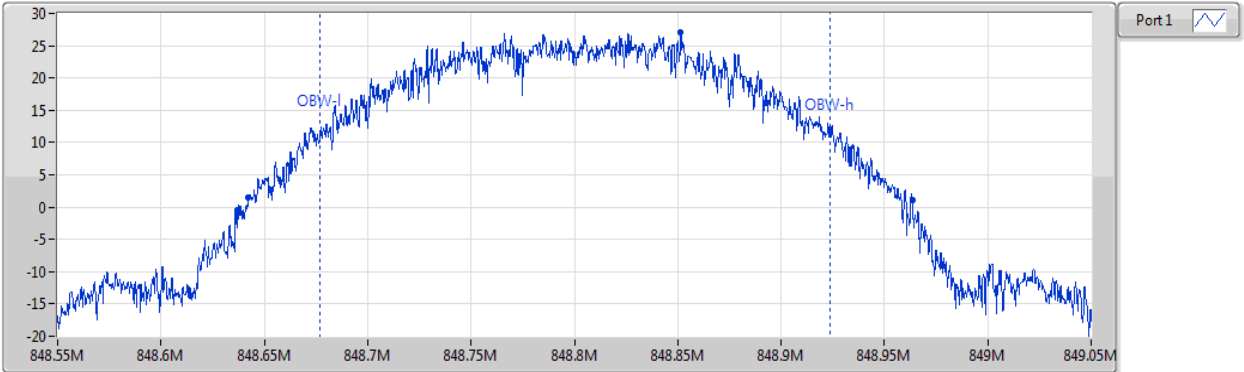
836.4MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
312k	836.24325M	836.55525M	247.526k	836.27675M	836.524276M	1	836.4M	500k	10k	30k

EBW

848.8MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
321.25k	848.64225M	848.9635M	246.478k	848.677133M	848.923611M	1	848.8M	500k	10k	30k

Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 5	-	-	-	-	-
WCDMA_5MHz_Nss1_1TX	4.688M	4.12M	4M12F9W	4.669M	4.109M

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

Result

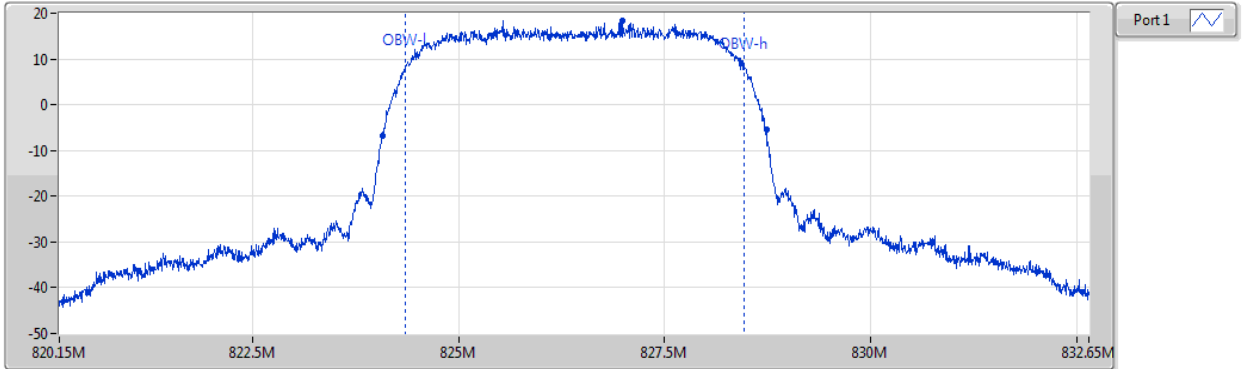
Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)
Band 5_WCDMA_5MHz_Nss1_1TX	-	-	-	-
826.4MHz	Pass	Inf	4.669M	4.111M
836.4MHz	Pass	Inf	4.675M	4.12M
846.6MHz	Pass	Inf	4.688M	4.109M

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

Band 5_WCDMA

EBW

826.4MHz

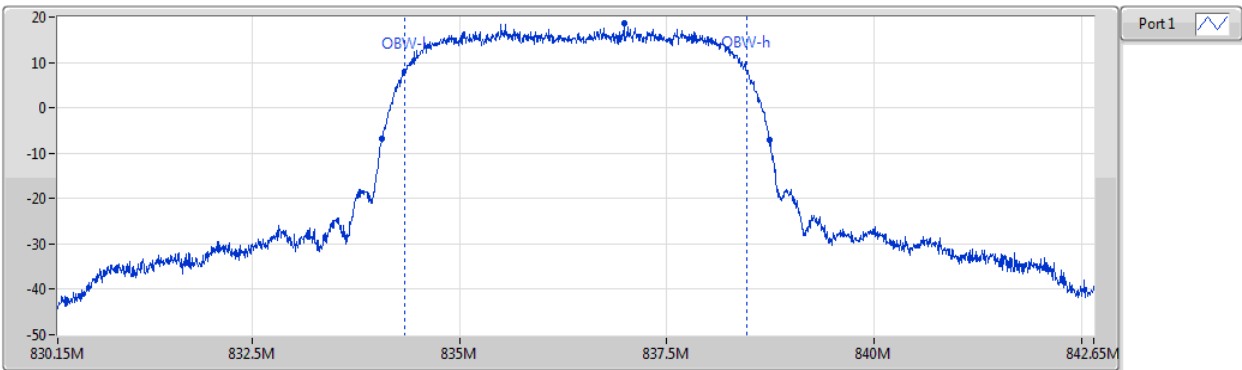


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
4.669M	824.06875M	828.7375M	4.111M	824.354885M	828.465873M	1	826.4M	12.5M	100k	300k

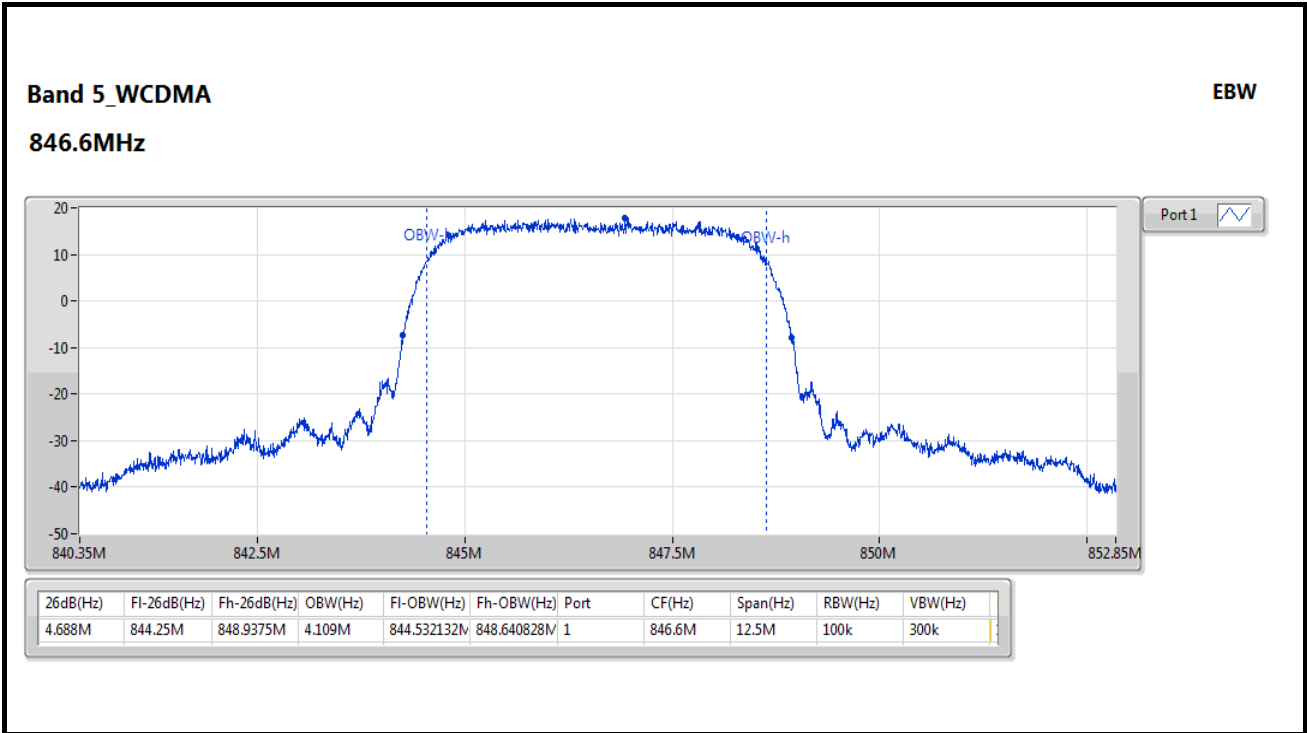
Band 5_WCDMA

EBW

836.4MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
4.675M	834.0625M	838.7375M	4.12M	834.338653M	838.458176M	1	836.4M	12.5M	100k	300k



Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 5	-	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	1.232M	1.08M	1M08G7D	1.223M	1.078M
LTE_1.4MHz_Nss1,16QAM_1TX	1.239M	1.081M	1M08W7D	1.234M	1.08M
LTE_3MHz_Nss1,QPSK_1TX	2.914M	2.68M	2M68G7D	2.899M	2.677M
LTE_3MHz_Nss1,16QAM_1TX	2.918M	2.683M	2M68W7D	2.903M	2.679M
LTE_5MHz_Nss1,QPSK_1TX	4.875M	4.463M	4M46G7D	4.85M	4.46M
LTE_5MHz_Nss1,16QAM_1TX	4.869M	4.465M	4M47W7D	4.806M	4.455M
LTE_10MHz_Nss1,QPSK_1TX	9.65M	8.919M	8M92G7D	9.613M	8.889M
LTE_10MHz_Nss1,16QAM_1TX	9.6M	8.914M	8M91W7D	9.488M	8.894M

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

Result

Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)
Band 5_LTE_1.4MHz_Nss1_1TX	-	-	-	-
824.7MHz_QPSK_RB 6,#RB 0	Pass	Inf	1.232M	1.08M
836.5MHz_QPSK_RB 6,#RB 0	Pass	Inf	1.229M	1.078M
848.3MHz_QPSK_RB 6,#RB 0	Pass	Inf	1.223M	1.079M
824.7MHz_16QAM_RB 6,#RB 0	Pass	Inf	1.234M	1.08M
836.5MHz_16QAM_RB 6,#RB 0	Pass	Inf	1.234M	1.081M
848.3MHz_16QAM_RB 6,#RB 0	Pass	Inf	1.239M	1.081M
Band 5_LTE_3MHz_Nss1_1TX	-	-	-	-
825.5MHz_QPSK_RB 15,#RB 0	Pass	Inf	2.914M	2.678M
836.5MHz_QPSK_RB 15,#RB 0	Pass	Inf	2.899M	2.68M
847.5MHz_QPSK_RB 15,#RB 0	Pass	Inf	2.903M	2.677M
825.5MHz_16QAM_RB 15,#RB 0	Pass	Inf	2.903M	2.683M
836.5MHz_16QAM_RB 15,#RB 0	Pass	Inf	2.914M	2.679M
847.5MHz_16QAM_RB 15,#RB 0	Pass	Inf	2.918M	2.682M
Band 5_LTE_5MHz_Nss1_1TX	-	-	-	-
826.5MHz_QPSK_RB 25,#RB 0	Pass	Inf	4.875M	4.46M
836.5MHz_QPSK_RB 25,#RB 0	Pass	Inf	4.863M	4.462M
846.5MHz_QPSK_RB 25,#RB 0	Pass	Inf	4.85M	4.463M
826.5MHz_16QAM_RB 25,#RB 0	Pass	Inf	4.869M	4.455M
836.5MHz_16QAM_RB 25,#RB 0	Pass	Inf	4.806M	4.463M

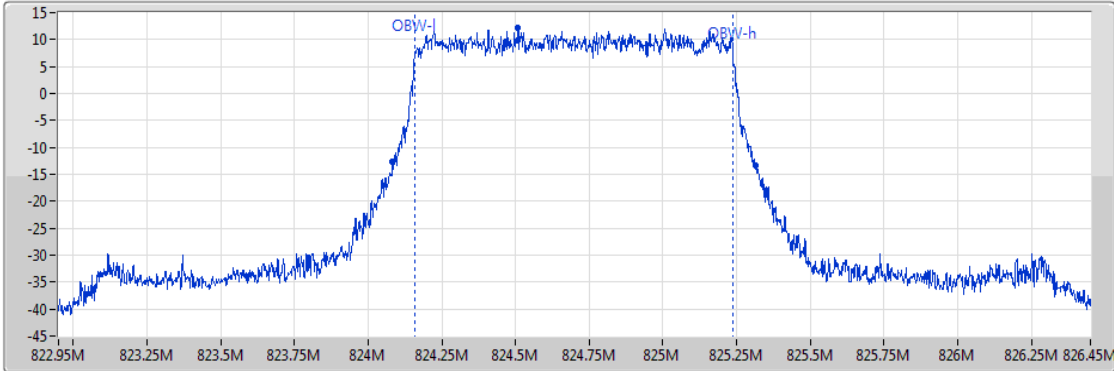
Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)
846.5MHz_16QAM_RB 25,#RB 0	Pass	Inf	4.85M	4.465M
Band 5_LTE_10MHz_Nss1_1TX	-	-	-	-
829MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.613M	8.899M
836.5MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.65M	8.919M
844MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.613M	8.889M
829MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.488M	8.894M
836.5MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.6M	8.914M
844MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.513M	8.896M

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

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

EBW

824.7MHz_QPSK_RB 6,#RB 0

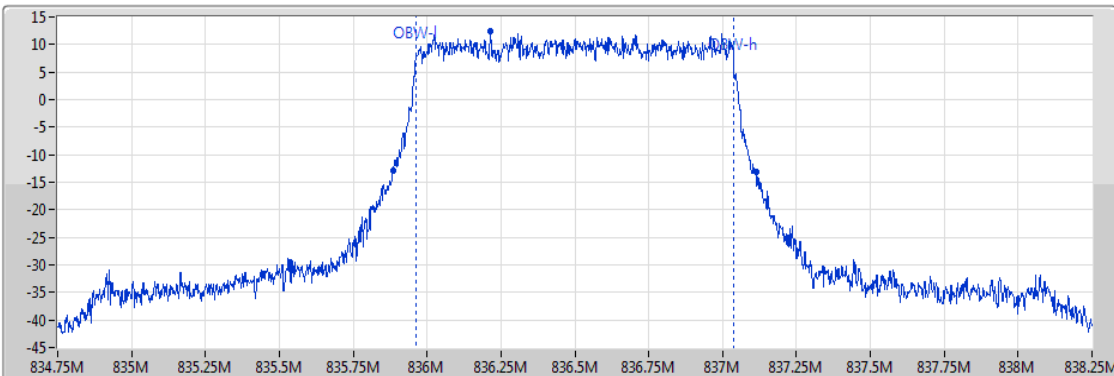


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.232M	824.08225M	825.31425M	1.08M	824.158983M	825.238733M	1	824.7M	3.5M	15k	47k

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

EBW

836.5MHz_QPSK_RB 6,#RB 0

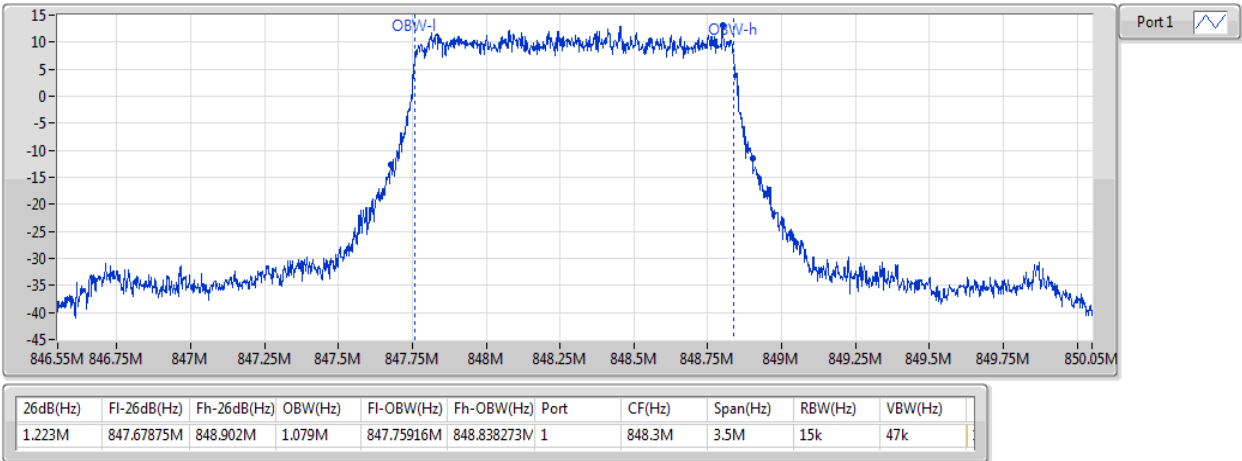


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.229M	835.884M	837.1125M	1.078M	835.960646M	837.038607M	1	836.5M	3.5M	15k	47k

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

EBW

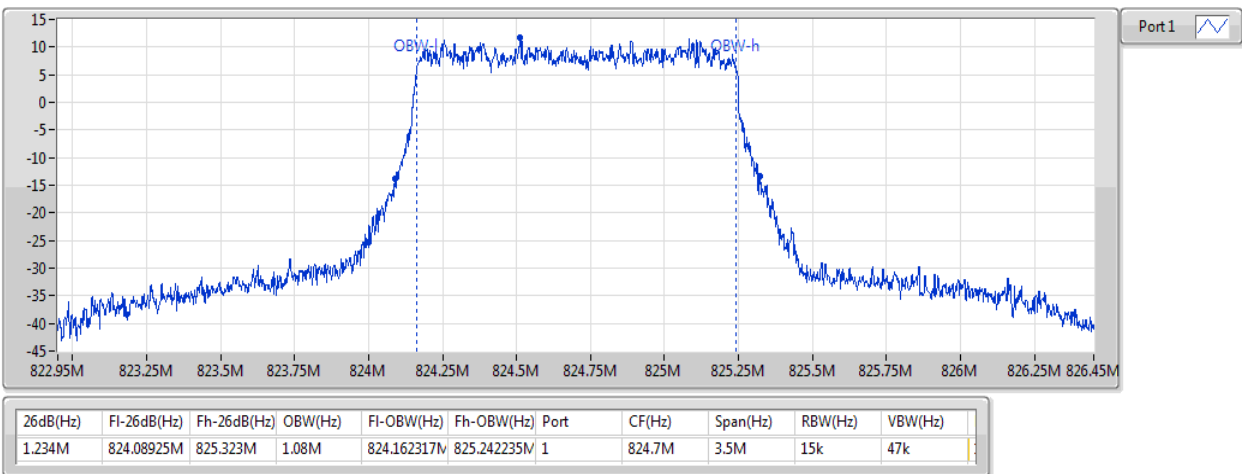
848.3MHz_QPSK_RB 6,#RB 0



Band 5_LTE_1.4MHz_Nss1,16QAM_1TX

EBW

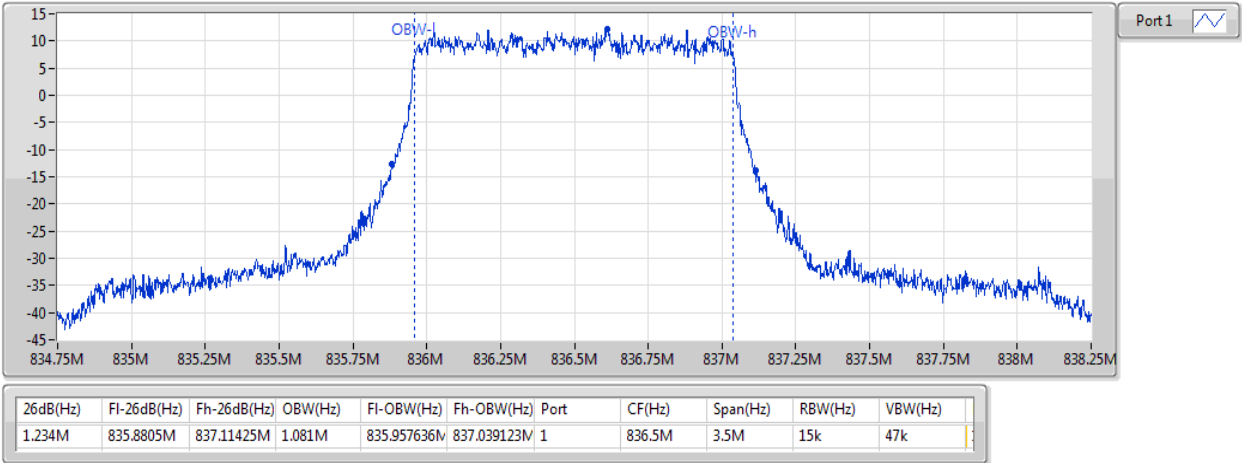
824.7MHz_16QAM_RB 6,#RB 0



Band 5_LTE_1.4MHz_Nss1,16QAM_1TX

EBW

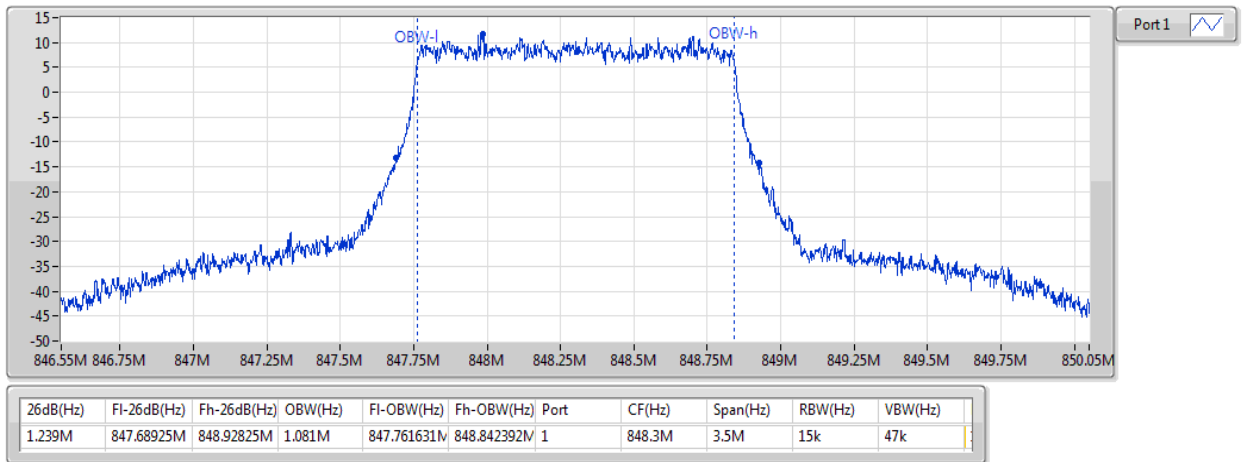
836.5MHz_16QAM_RB 6,#RB 0



Band 5_LTE_1.4MHz_Nss1,16QAM_1TX

EBW

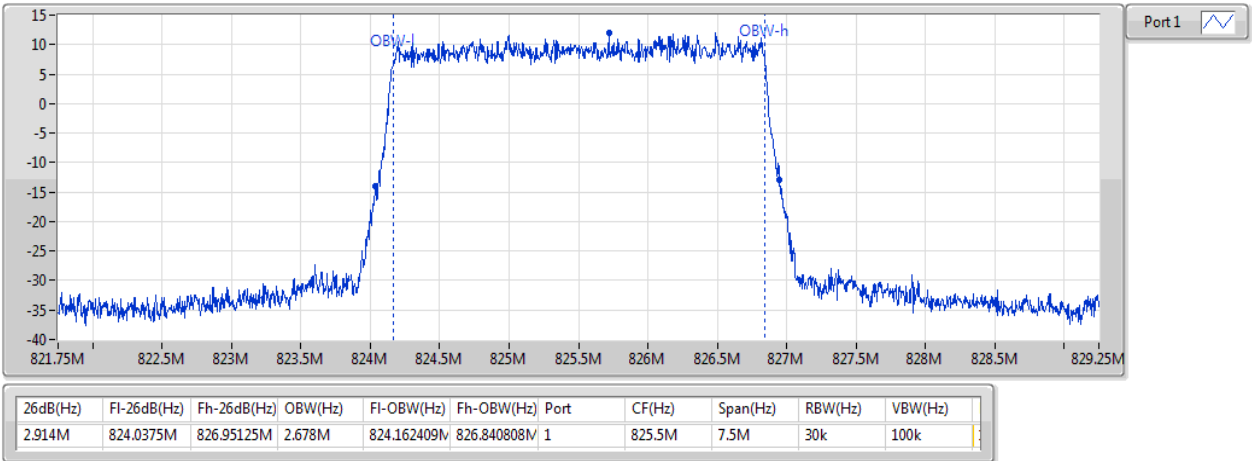
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Band 5_LTE_3MHz_Nss1,QPSK_1TX

EBW

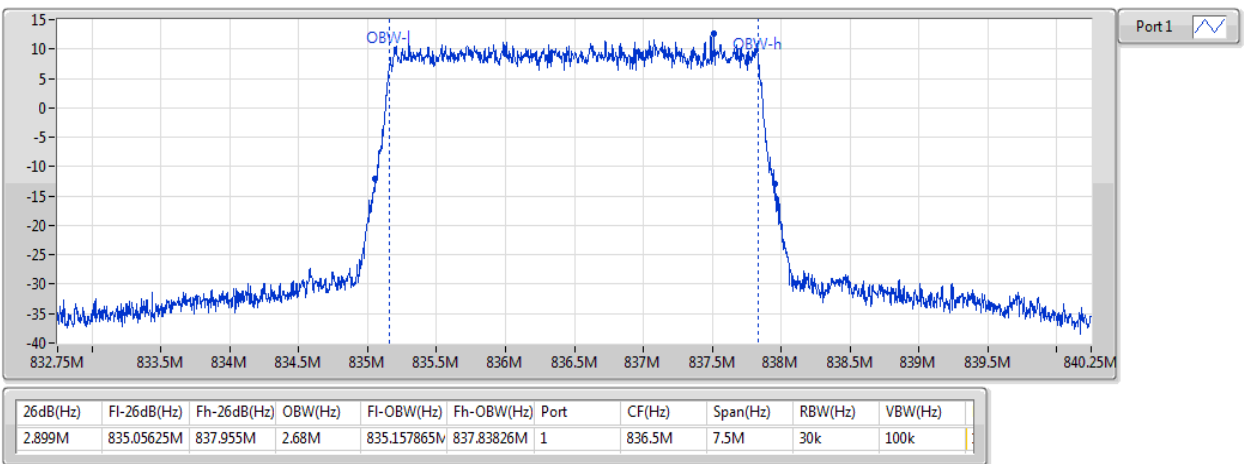
825.5MHz_QPSK_RB 15,#RB 0



Band 5_LTE_3MHz_Nss1,QPSK_1TX

EBW

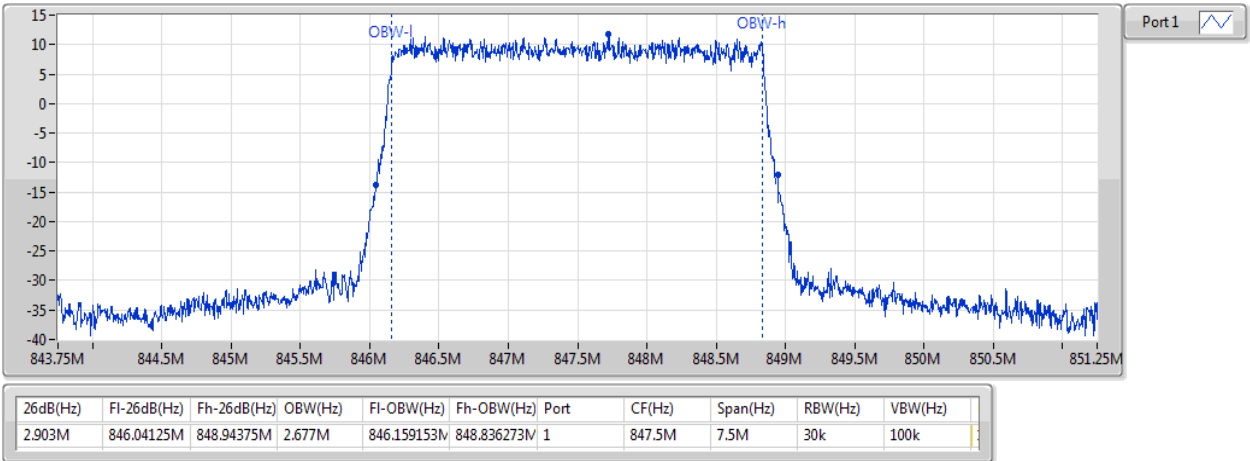
836.5MHz_QPSK_RB 15,#RB 0



Band 5_LTE_3MHz_Nss1,QPSK_1TX

EBW

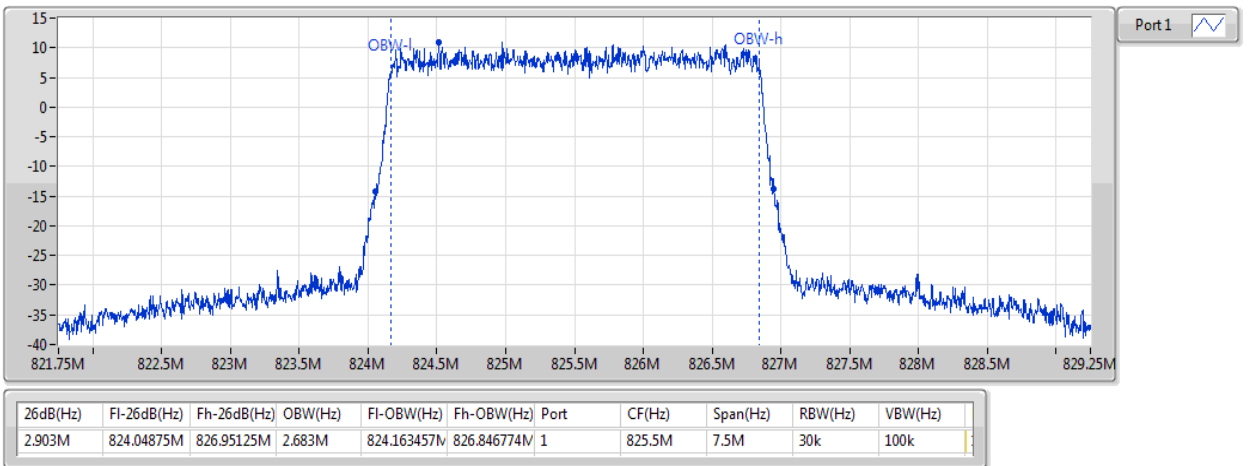
847.5MHz_QPSK_RB 15,#RB 0



Band 5_LTE_3MHz_Nss1,16QAM_1TX

EBW

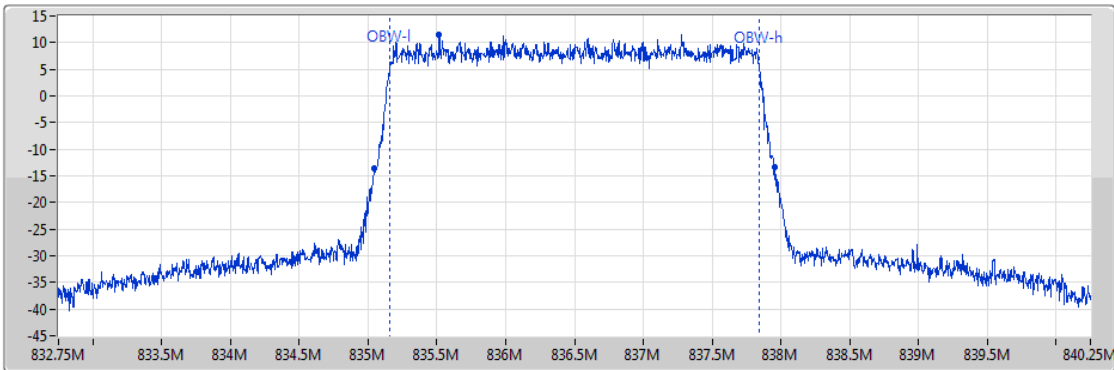
825.5MHz_16QAM_RB 15,#RB 0



Band 5_LTE_3MHz_Nss1,16QAM_1TX

EBW

836.5MHz_16QAM_RB 15,#RB 0

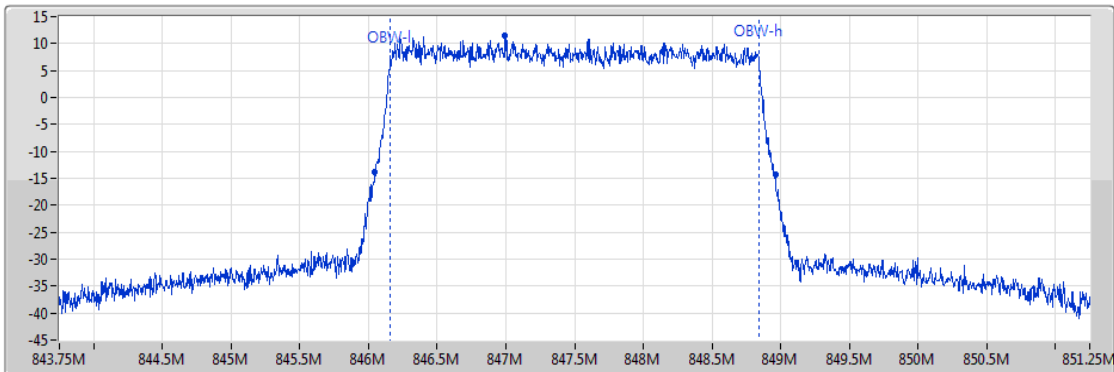


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
2.914M	835.04125M	837.955M	2.679M	835.160298M	837.839461M	1	836.5M	7.5M	30k	100k

Band 5_LTE_3MHz_Nss1,16QAM_1TX

EBW

847.5MHz_16QAM_RB 15,#RB 0

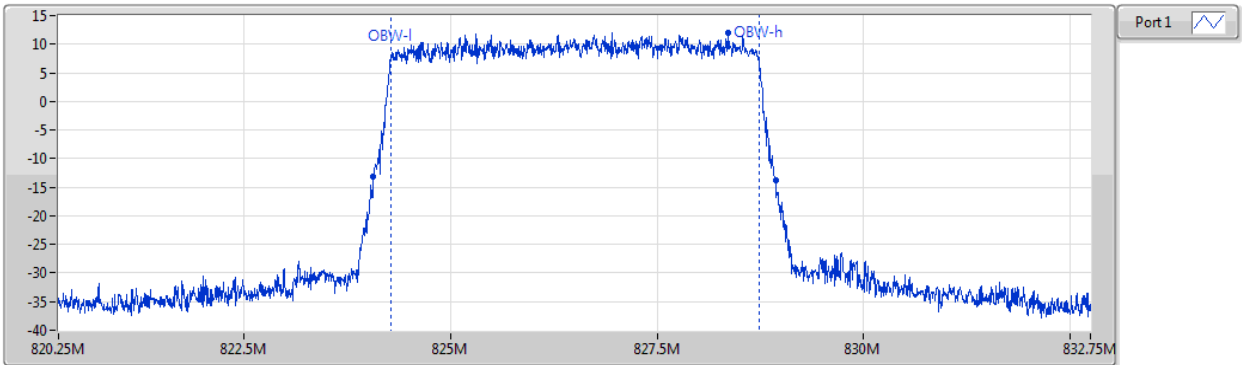


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
2.918M	846.045M	848.9625M	2.682M	846.158329M	848.840556M	1	847.5M	7.5M	30k	100k

Band 5_LTE_5MHz_Nss1,QPSK_1TX

EBW

826.5MHz_QPSK_RB 25,#RB 0

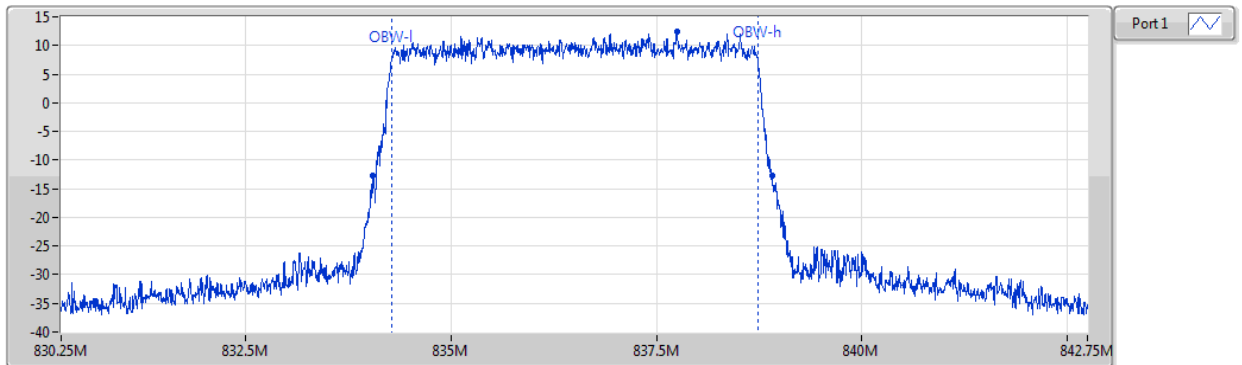


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
4.875M	824.0625M	828.9375M	4.46M	824.272743M	828.732579M	1	826.5M	12.5M	51k	160k

Band 5_LTE_5MHz_Nss1,QPSK_1TX

EBW

836.5MHz_QPSK_RB 25,#RB 0

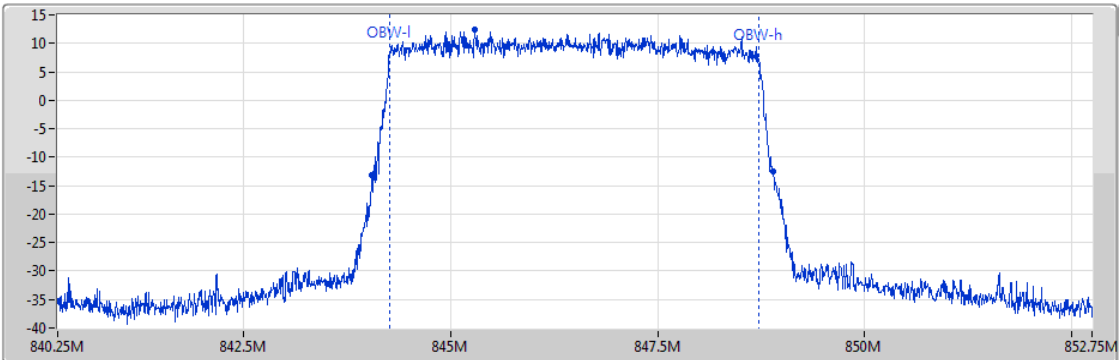


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
4.863M	834.05M	838.9125M	4.462M	834.270155M	838.73231M	1	836.5M	12.5M	51k	160k

Band 5_LTE_5MHz_Nss1,QPSK_1TX

EBW

846.5MHz_QPSK_RB 25,#RB 0

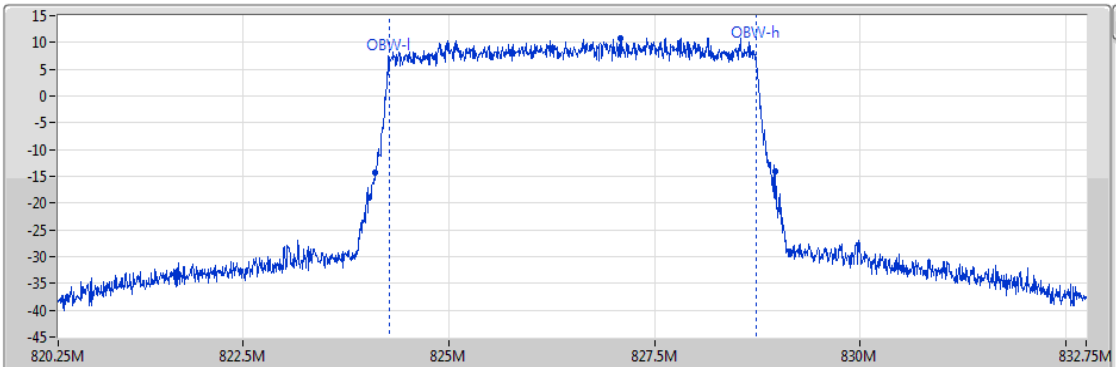


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
4.85M	844.05M	848.9M	4.463M	844.260503M	848.723451M	1	846.5M	12.5M	51k	160k

Band 5_LTE_5MHz_Nss1,16QAM_1TX

EBW

826.5MHz_16QAM_RB 25,#RB 0

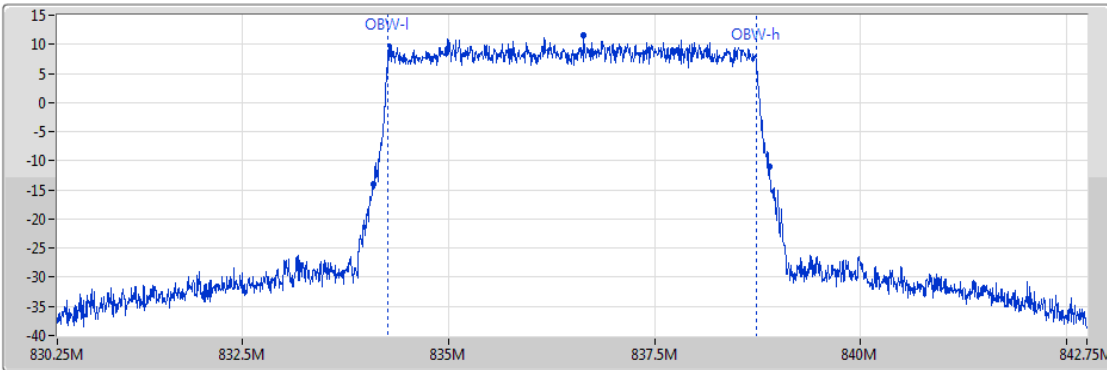


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
4.869M	824.10625M	828.975M	4.455M	824.277417M	828.732327M	1	826.5M	12.5M	51k	160k

Band 5_LTE_5MHz_Nss1,16QAM_1TX

EBW

836.5MHz_16QAM_RB 25,#RB 0

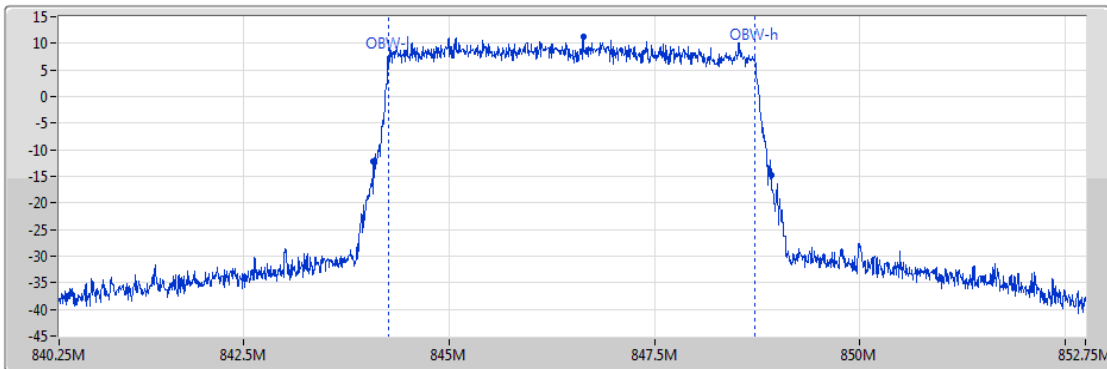


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
4.806M	834.09375M	838.9M	4.463M	834.268707M	838.732083M	1	836.5M	12.5M	51k	160k

Band 5_LTE_5MHz_Nss1,16QAM_1TX

EBW

846.5MHz_16QAM_RB 25,#RB 0

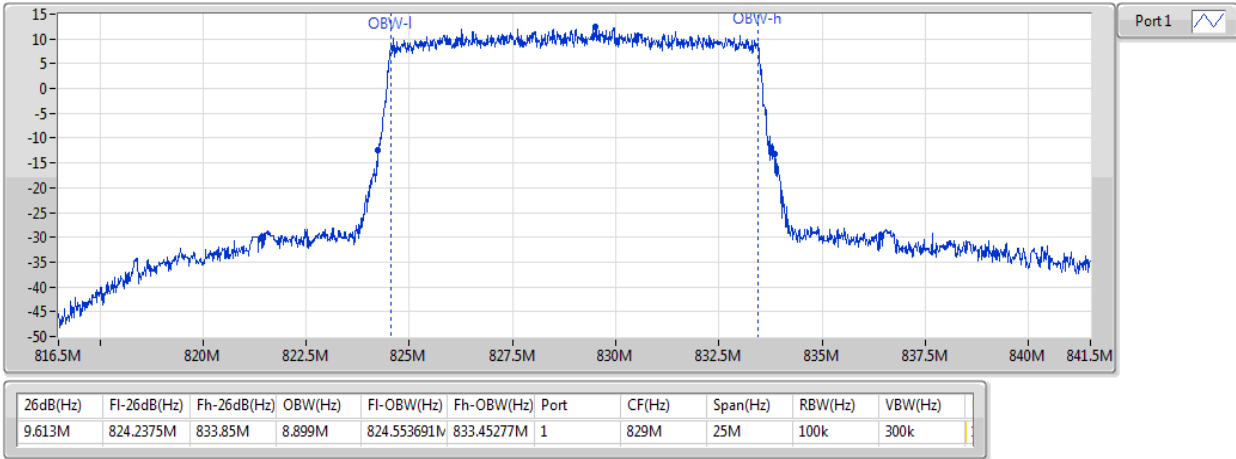


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
4.85M	844.075M	848.925M	4.465M	844.262303M	848.726829M	1	846.5M	12.5M	51k	160k

Band 5_LTE_10MHz_Nss1,QPSK_1TX

EBW

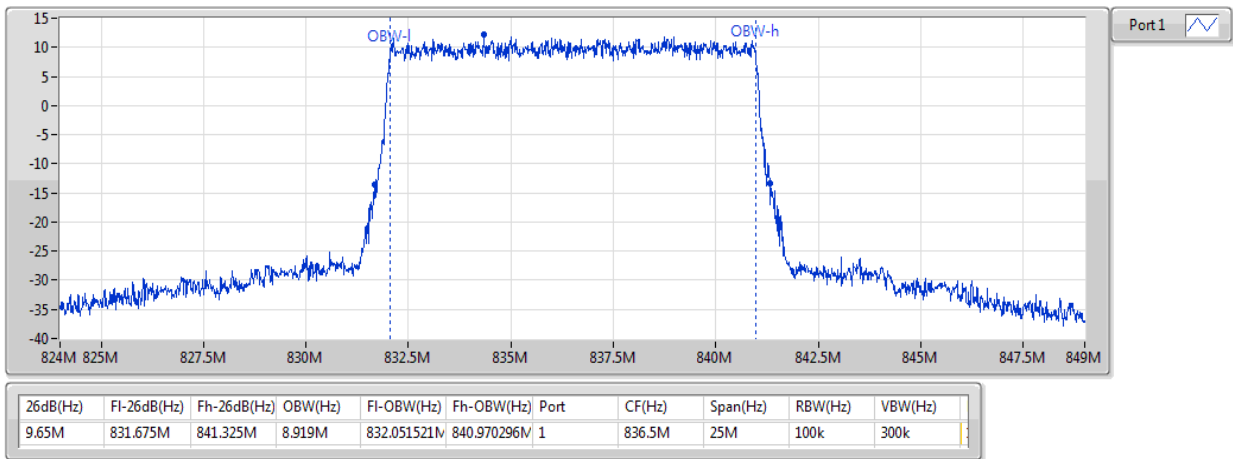
829MHz_QPSK_RB 50,#RB 0



Band 5_LTE_10MHz_Nss1,QPSK_1TX

EBW

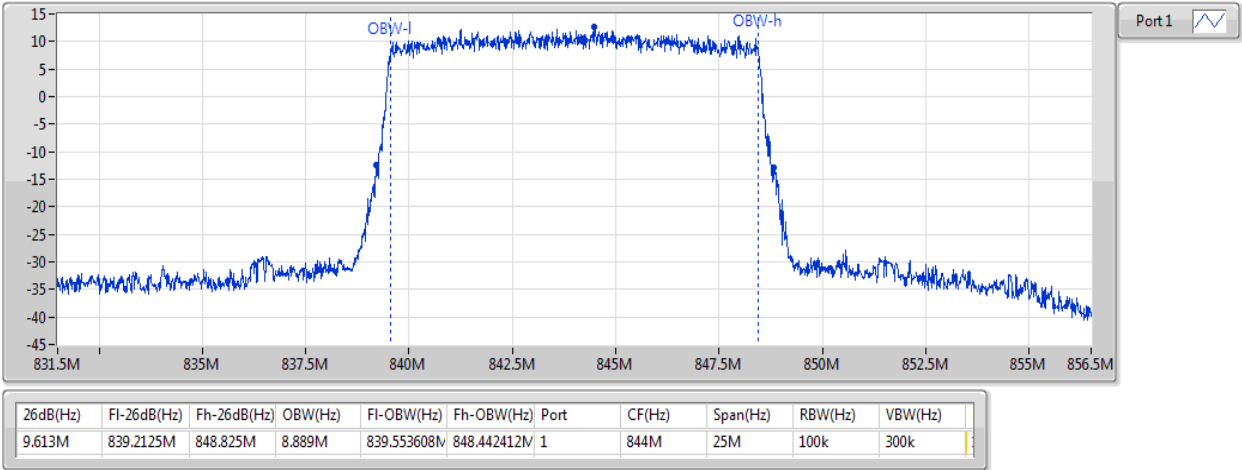
836.5MHz_QPSK_RB 50,#RB 0



Band 5_LTE_10MHz_Nss1,QPSK_1TX

EBW

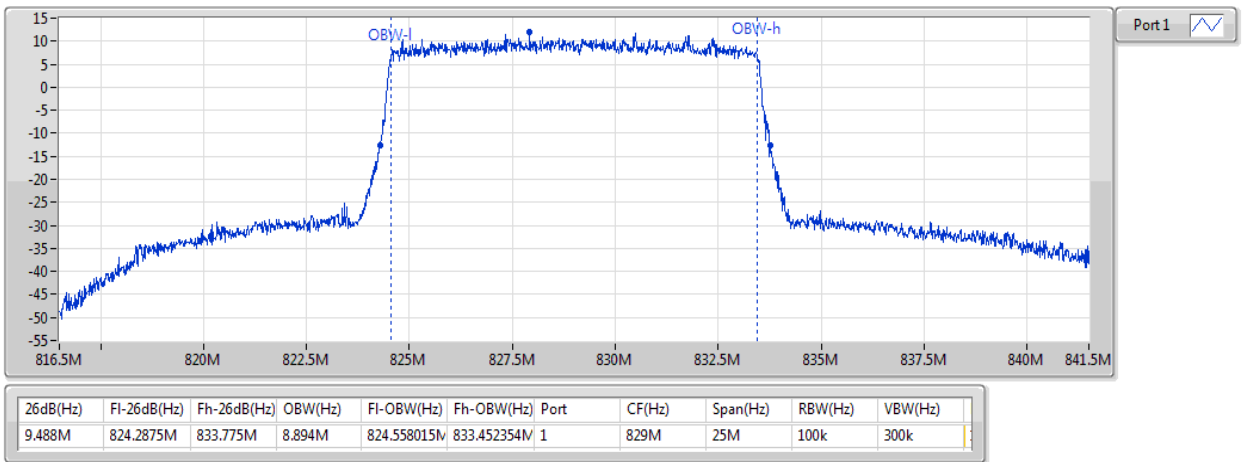
844MHz_QPSK_RB 50,#RB 0



Band 5_LTE_10MHz_Nss1,16QAM_1TX

EBW

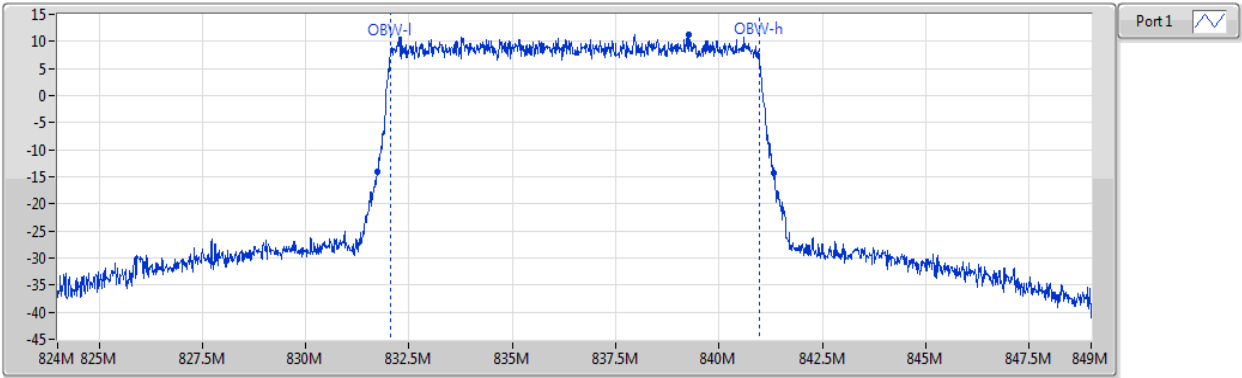
829MHz_16QAM_RB 50,#RB 0



Band 5_LTE_10MHz_Nss1,16QAM_1TX

EBW

836.5MHz_16QAM_RB 50,#RB 0

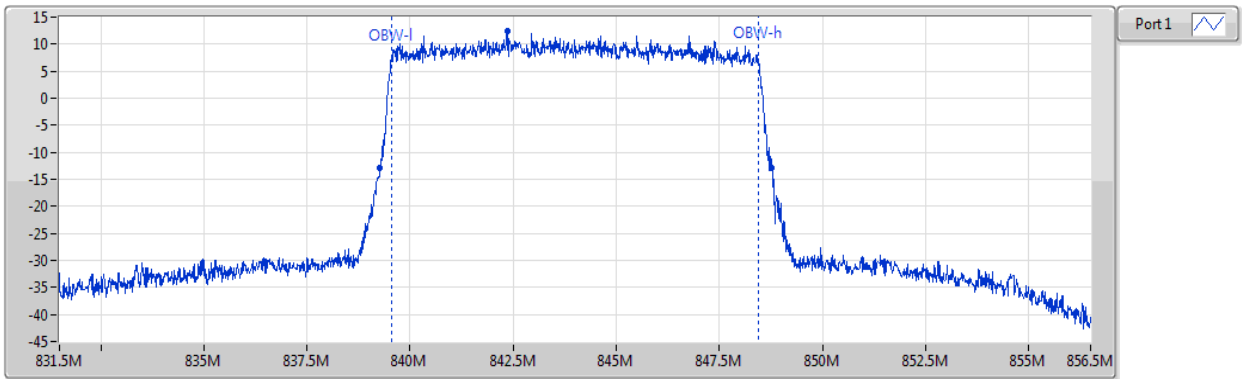


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
9.6M	831.7375M	841.3375M	8.914M	832.048904M	840.962818M	1	836.5M	25M	100k	300k

Band 5_LTE_10MHz_Nss1,16QAM_1TX

EBW

844MHz_16QAM_RB 50,#RB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
9.513M	839.2625M	848.775M	8.896M	839.549677M	848.445301M	1	844M	25M	100k	300k

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

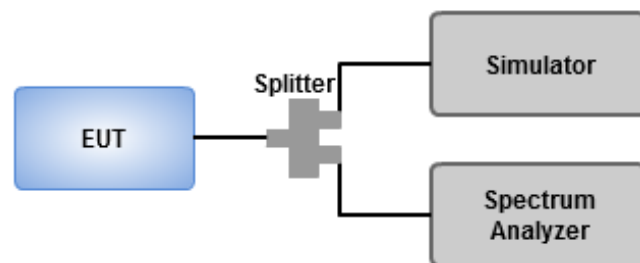
GSM mode

1. Set RBW=1MHz, RBW=3MHz, Peak detector in Trace 1
2. Set RBW=1MHz, RBW=3MHz, RMS detector in Trace 2
3. Trigger function is enabled for measuring signal at burst on time. Measure the difference between trace1 and trace 2.

WCDMA / LTE mode

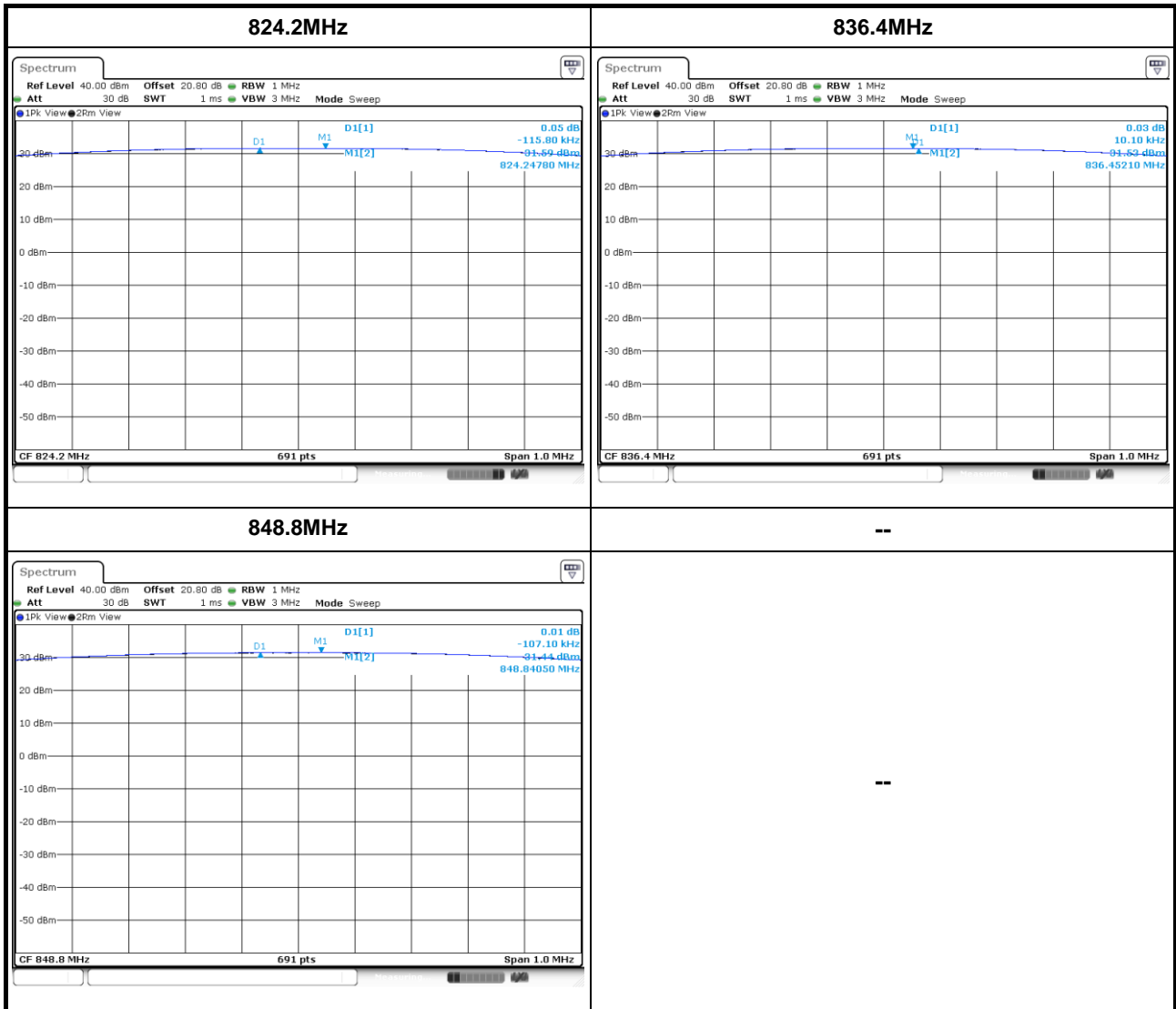
1. Enable CCDF function of spectrum analyzer and set RBW=10MHz.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.5.3 Test Setup



3.5.4 Test Result of Peak to Average Ratio

MODE	Frequency (MHz)	Peak to Average ratio (dB)	Result
850_GSM	824.2MHz	0.05	Pass
850_GSM	836.4MHz	0.03	Pass
850_GSM	848.8MHz	0.01	Pass



Summary

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 5	-	-	-	-	-
WCDMA_5MHz_Nss1_1TX	Pass	836.4	13.00	3.04	1

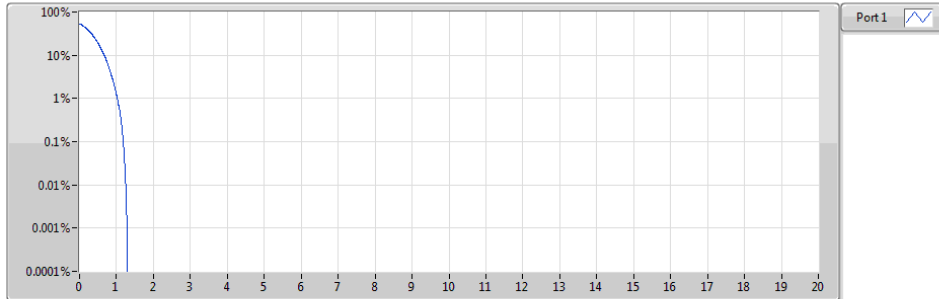
Result

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 5_WCDMA_5MHz_Nss1_1TX	-	-	-	-	-
826.4MHz	Pass	826.4	13.00	2.96	1
836.4MHz	Pass	836.4	13.00	3.04	1
846.6MHz	Pass	846.6	13.00	2.92	1

Band 5_WCDMA

PAR

826.4MHz

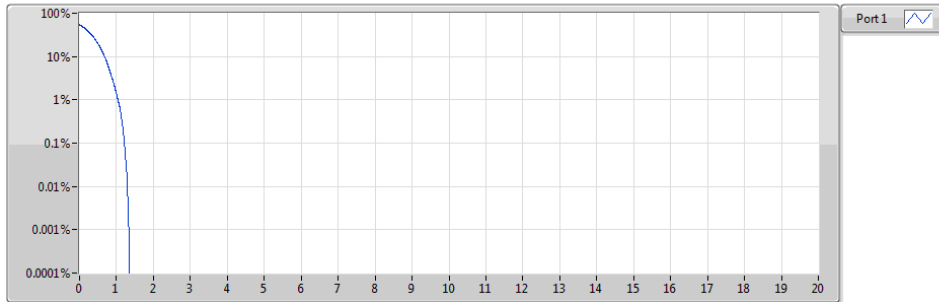


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
826.4	20M	2.96	-10.04	13.00	1

Band 5_WCDMA

PAR

836.4MHz

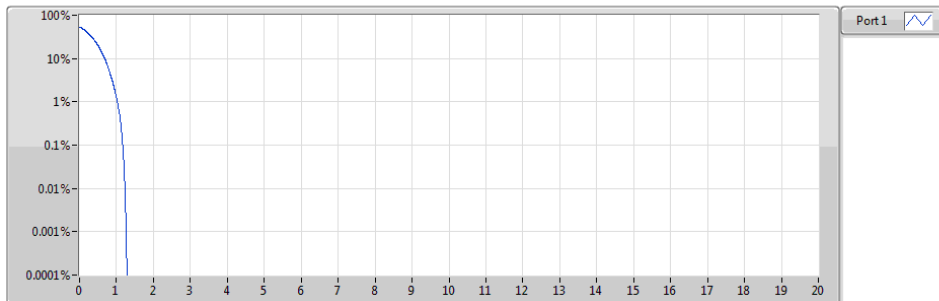


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
836.4	20M	3.04	-9.96	13.00	1

Band 5_WCDMA

PAR

846.6MHz



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
846.6	20M	2.92	-10.08	13.00	1

Summary

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 5	-	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	848.3	13.00	5.20	1
LTE_1.4MHz_Nss1,16QAM_1TX	Pass	848.3	13.00	6.03	1
LTE_3MHz_Nss1,QPSK_1TX	Pass	836.5	13.00	5.24	1
LTE_3MHz_Nss1,16QAM_1TX	Pass	825.5	13.00	6.10	1
LTE_5MHz_Nss1,QPSK_1TX	Pass	836.5	13.00	5.17	1
LTE_5MHz_Nss1,16QAM_1TX	Pass	836.5	13.00	5.97	1
LTE_10MHz_Nss1,QPSK_1TX	Pass	836.5	13.00	5.32	1
LTE_10MHz_Nss1,16QAM_1TX	Pass	836.5	13.00	6.07	1

Result

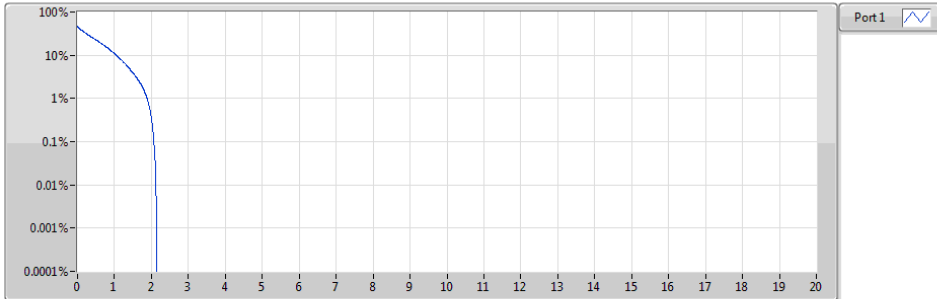
Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 5_LTE_1.4MHz_Nss1_1TX	-	-	-	-	-
824.7MHz_QPSK_RB 6,#RB 0	Pass	824.7	13.00	5.16	1
836.5MHz_QPSK_RB 6,#RB 0	Pass	836.5	13.00	5.19	1
848.3MHz_QPSK_RB 6,#RB 0	Pass	848.3	13.00	5.20	1
824.7MHz_16QAM_RB 6,#RB 0	Pass	824.7	13.00	5.95	1
836.5MHz_16QAM_RB 6,#RB 0	Pass	836.5	13.00	5.19	1
848.3MHz_16QAM_RB 6,#RB 0	Pass	848.3	13.00	6.03	1
Band 5_LTE_3MHz_Nss1_1TX	-	-	-	-	-
825.5MHz_QPSK_RB 15,#RB 0	Pass	825.5	13.00	5.16	1
836.5MHz_QPSK_RB 15,#RB 0	Pass	836.5	13.00	5.24	1
847.5MHz_QPSK_RB 15,#RB 0	Pass	847.5	13.00	5.18	1
825.5MHz_16QAM_RB 15,#RB 0	Pass	825.5	13.00	6.10	1
836.5MHz_16QAM_RB 15,#RB 0	Pass	836.5	13.00	6.08	1
847.5MHz_16QAM_RB 15,#RB 0	Pass	847.5	13.00	6.04	1
Band 5_LTE_5MHz_Nss1_1TX	-	-	-	-	-
826.5MHz_QPSK_RB 25,#RB 0	Pass	826.5	13.00	5.09	1
836.5MHz_QPSK_RB 25,#RB 0	Pass	836.5	13.00	5.17	1
846.5MHz_QPSK_RB 25,#RB 0	Pass	846.5	13.00	5.04	1
826.5MHz_16QAM_RB 25,#RB 0	Pass	826.5	13.00	5.94	1
836.5MHz_16QAM_RB 25,#RB 0	Pass	836.5	13.00	5.97	1
846.5MHz_16QAM_RB 25,#RB 0	Pass	846.5	13.00	5.89	1
Band 5_LTE_10MHz_Nss1_1TX	-	-	-	-	-

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
829MHz_QPSK_RB 50,#RB 0	Pass	829	13.00	5.30	1
836.5MHz_QPSK_RB 50,#RB 0	Pass	836.5	13.00	5.32	1
844MHz_QPSK_RB 50,#RB 0	Pass	844	13.00	5.04	1
829MHz_16QAM_RB 50,#RB 0	Pass	829	13.00	6.02	1
836.5MHz_16QAM_RB 50,#RB 0	Pass	836.5	13.00	6.07	1
844MHz_16QAM_RB 50,#RB 0	Pass	844	13.00	5.87	1

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

PAR

824.7MHz_QPSK_RB 6,#RB 0

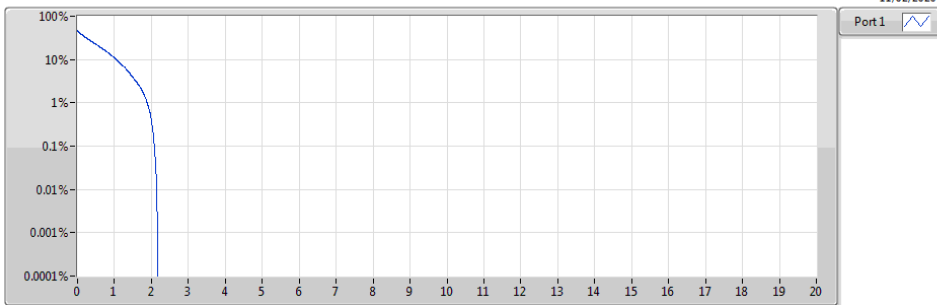


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
824.7	20M	5.16	-7.84	13.00	1

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

PAR

836.5MHz_QPSK_RB 6,#RB 0

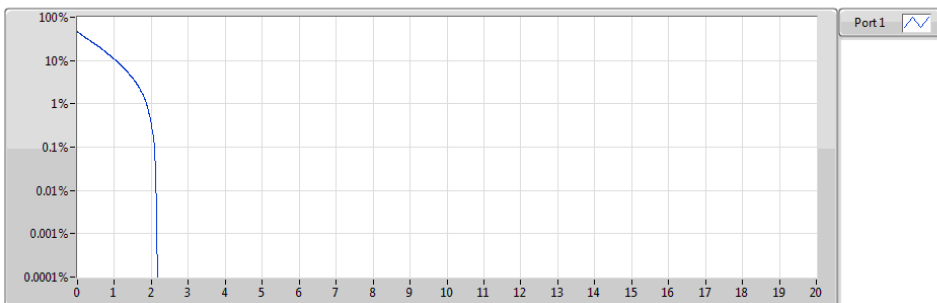


Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
836.5	20M	5.19	-7.81	13.00	1

Band 5_LTE_1.4MHz_Nss1,QPSK_1TX

PAR

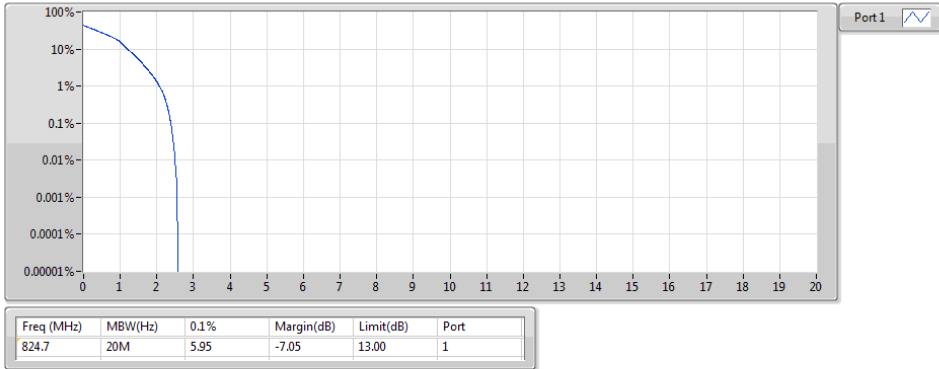
848.3MHz_QPSK_RB 6,#RB 0



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
848.3	20M	5.20	-7.80	13.00	1

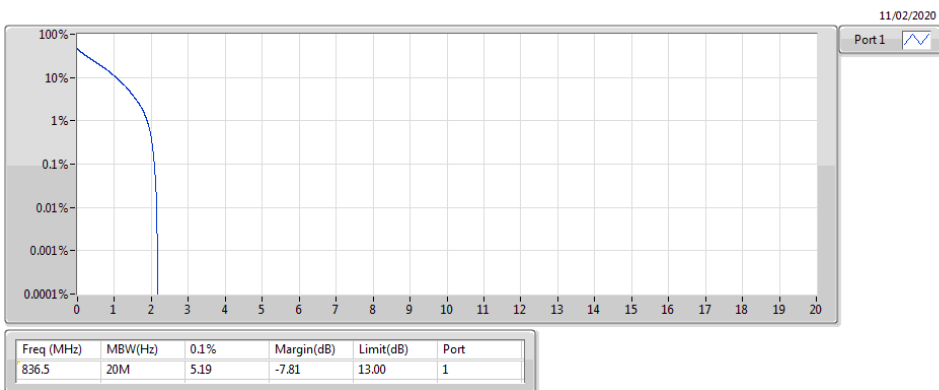
Band 5_LTE_1.4MHz_Nss1,16QAM_1TX
824.7MHz_16QAM_RB 6,#RB 0

PAR



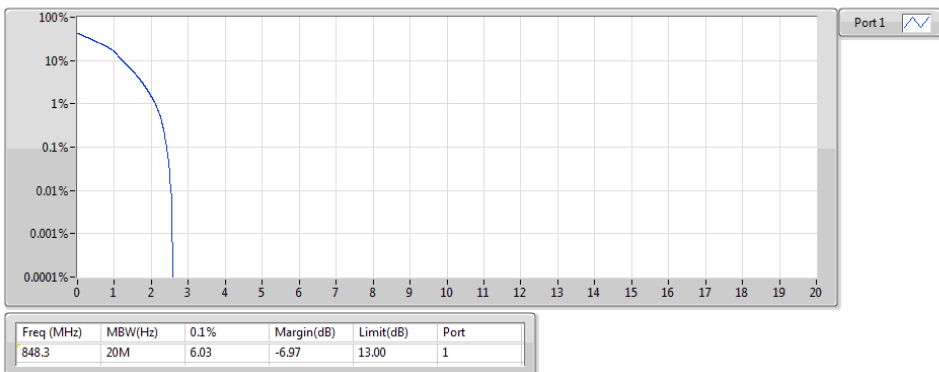
Band 5_LTE_1.4MHz_Nss1,16QAM_1TX
836.5MHz_16QAM_RB 6,#RB 0

PAR



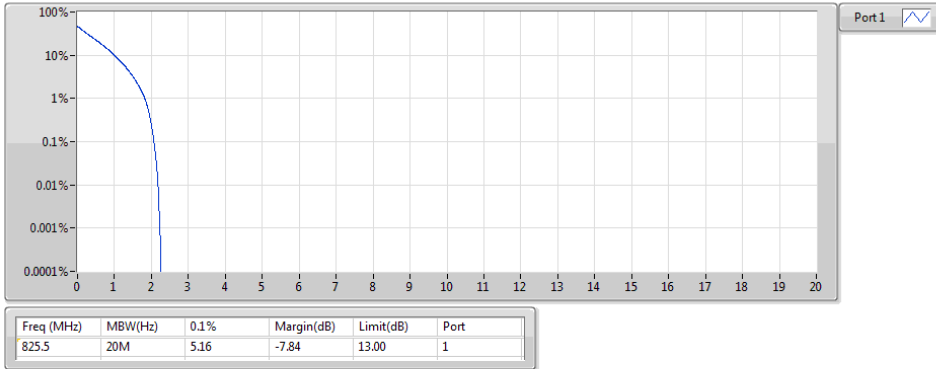
Band 5_LTE_1.4MHz_Nss1,16QAM_1TX
848.3MHz_16QAM_RB 6,#RB 0

PAR



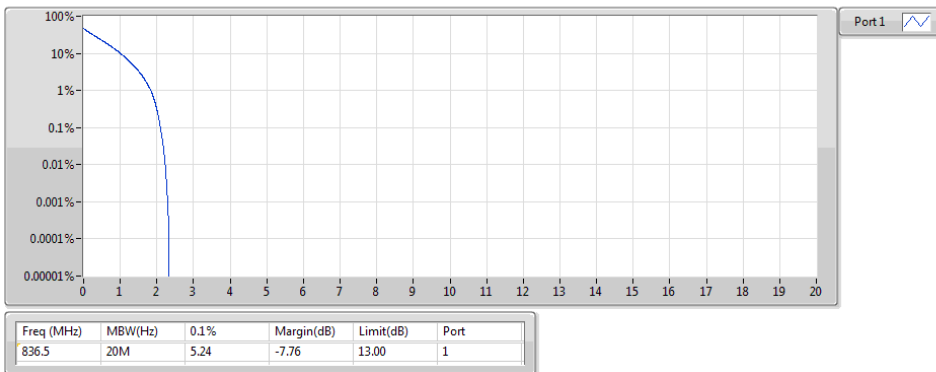
Band 5_LTE_3MHz_Nss1,QPSK_1TX
825.5MHz_QPSK_RB 15,#RB 0

PAR



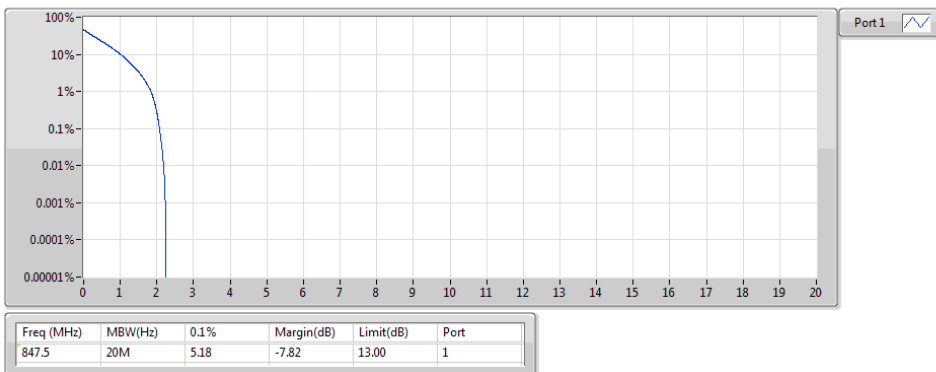
Band 5_LTE_3MHz_Nss1,QPSK_1TX
836.5MHz_QPSK_RB 15,#RB 0

PAR



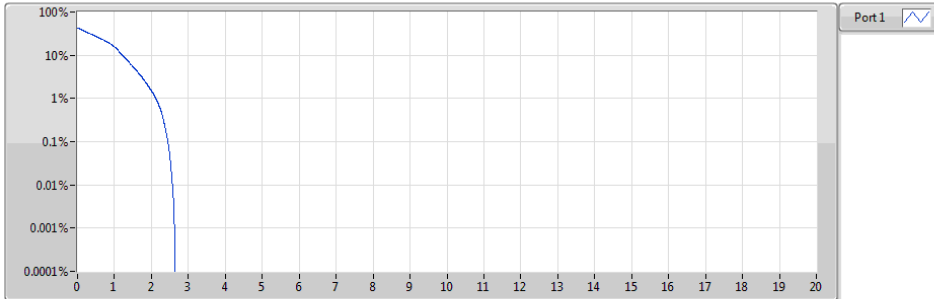
Band 5_LTE_3MHz_Nss1,QPSK_1TX
847.5MHz_QPSK_RB 15,#RB 0

PAR



Band 5_LTE_3MHz_Nss1,16QAM_1TX
825.5MHz_16QAM_RB 15,#RB 0

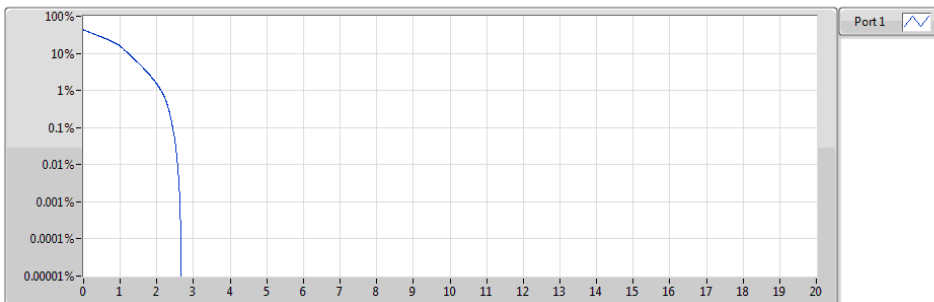
PAR



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
825.5	20M	6.10	-6.90	13.00	1

Band 5_LTE_3MHz_Nss1,16QAM_1TX
836.5MHz_16QAM_RB 15,#RB 0

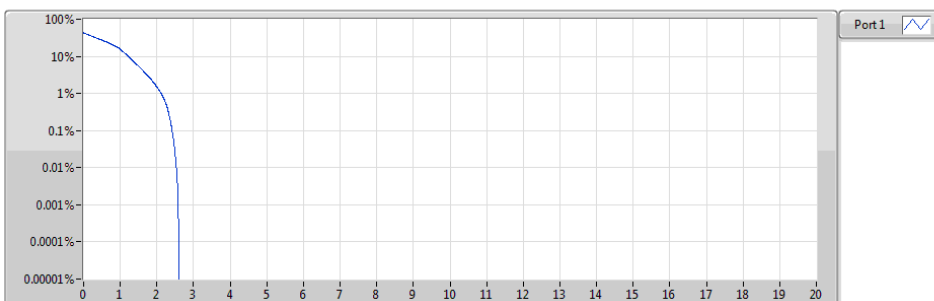
PAR



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
836.5	20M	6.08	-6.92	13.00	1

Band 5_LTE_3MHz_Nss1,16QAM_1TX
847.5MHz_16QAM_RB 15,#RB 0

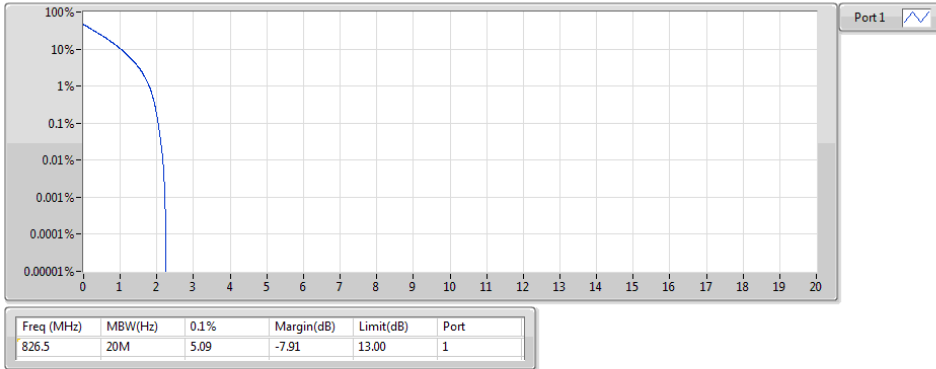
PAR



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
847.5	20M	6.04	-6.96	13.00	1

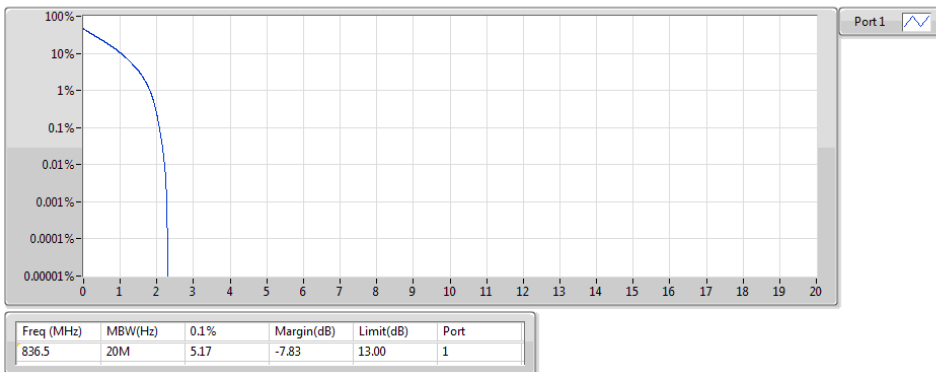
Band 5_LTE_5MHz_Nss1,QPSK_1TX
826.5MHz_QPSK_RB 25,#RB 0

PAR



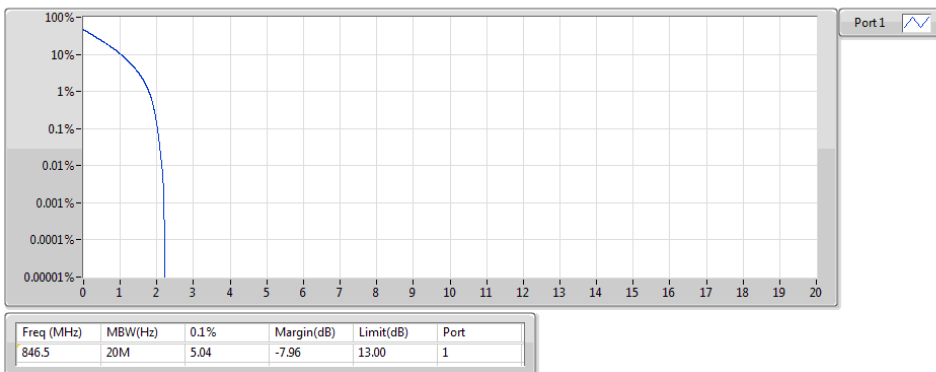
Band 5_LTE_5MHz_Nss1,QPSK_1TX
836.5MHz_QPSK_RB 25,#RB 0

PAR



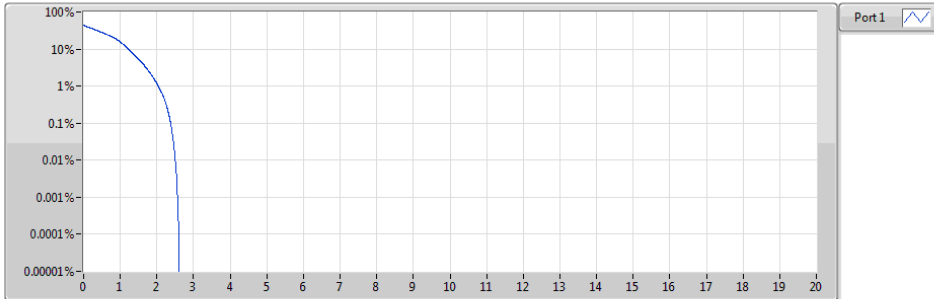
Band 5_LTE_5MHz_Nss1,QPSK_1TX
846.5MHz_QPSK_RB 25,#RB 0

PAR



Band 5_LTE_5MHz_Nss1,16QAM_1TX
826.5MHz_16QAM_RB 25,#RB 0

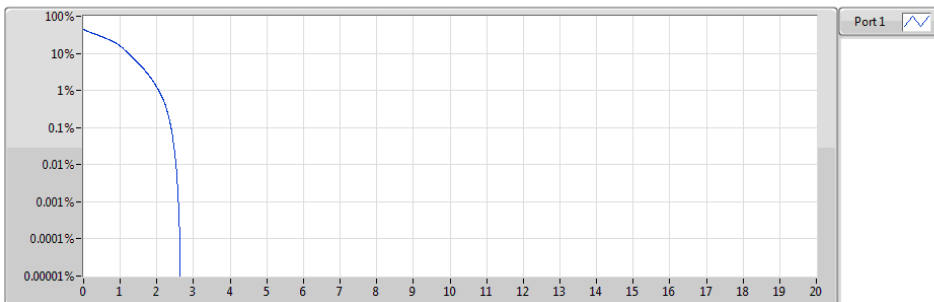
PAR



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
826.5	20M	5.94	-7.06	13.00	1

Band 5_LTE_5MHz_Nss1,16QAM_1TX
836.5MHz_16QAM_RB 25,#RB 0

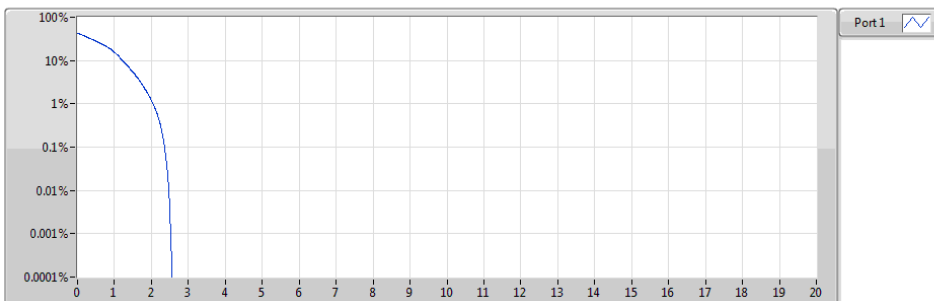
PAR



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
836.5	20M	5.97	-7.03	13.00	1

Band 5_LTE_5MHz_Nss1,16QAM_1TX
846.5MHz_16QAM_RB 25,#RB 0

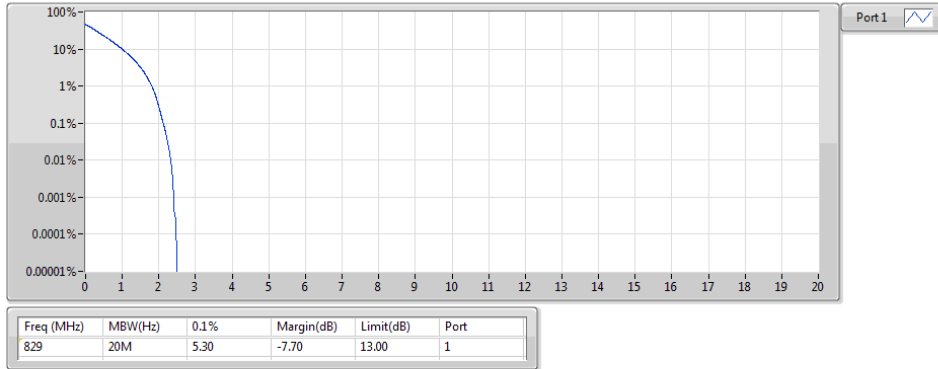
PAR



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
846.5	20M	5.89	-7.11	13.00	1

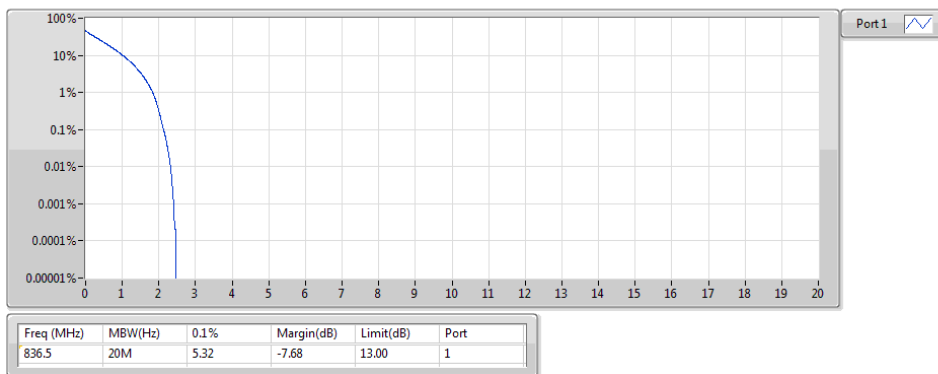
Band 5_LTE_10MHz_Nss1,QPSK_1TX
829MHz_QPSK_RB 50,#RB 0

PAR



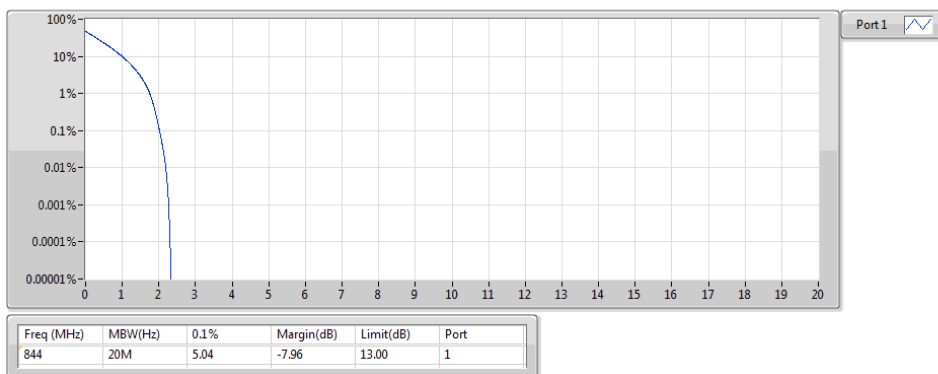
Band 5_LTE_10MHz_Nss1,QPSK_1TX
836.5MHz_QPSK_RB 50,#RB 0

PAR



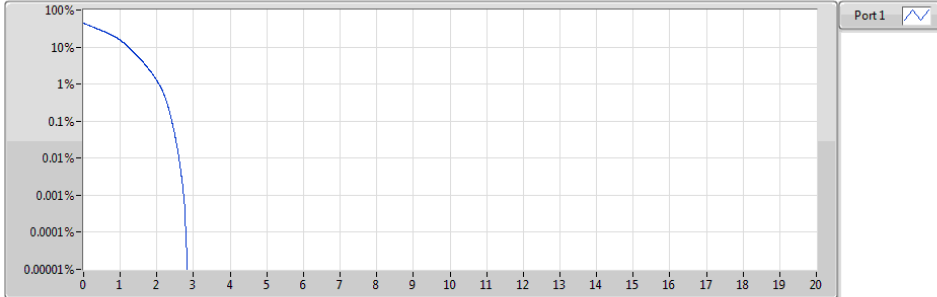
Band 5_LTE_10MHz_Nss1,QPSK_1TX
844MHz_QPSK_RB 50,#RB 0

PAR



Band 5_LTE_10MHz_Nss1,16QAM_1TX
829MHz_16QAM_RB 50,#RB 0

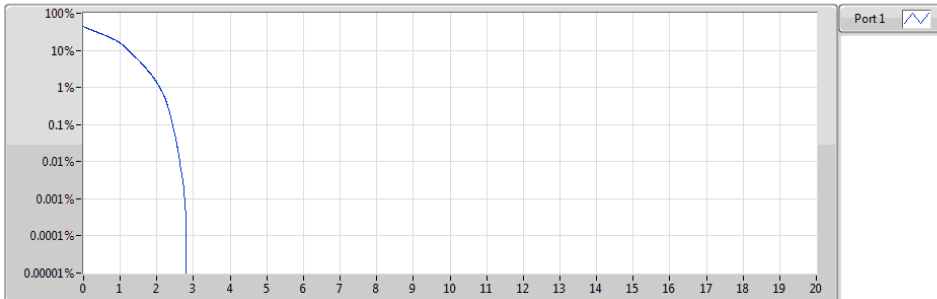
PAR



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
829	20M	6.02	-6.98	13.00	1

Band 5_LTE_10MHz_Nss1,16QAM_1TX
836.5MHz_16QAM_RB 50,#RB 0

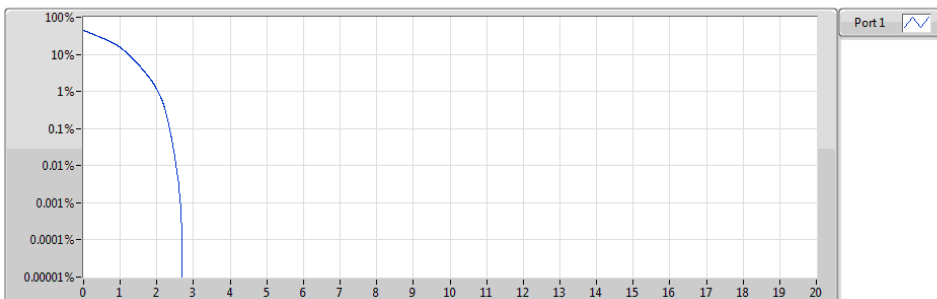
PAR



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
836.5	20M	6.07	-6.93	13.00	1

Band 5_LTE_10MHz_Nss1,16QAM_1TX
844MHz_16QAM_RB 50,#RB 0

PAR



Freq (MHz)	MBW(Hz)	0.1%	Margin(dB)	Limit(dB)	Port
844	20M	5.87	-7.13	13.00	1

3.6 Frequency Stability

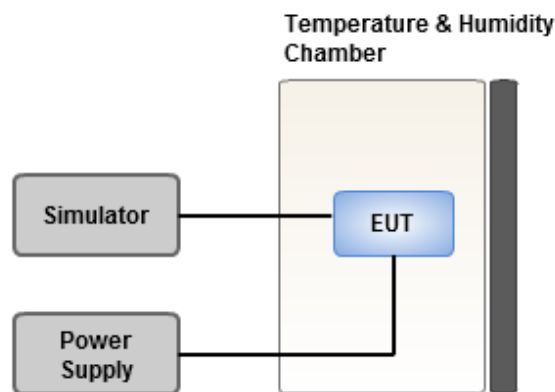
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

850_GSM			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
T20°CVmax	4.29	0.0012	2.5
T20°CVmin	3.51	0.0012	2.5
T55°CVnom	3.9	0.0022	2.5
T50°CVnom	3.9	0.0012	2.5
T40°CVnom	3.9	0.0012	2.5
T30°CVnom	3.9	0.0022	2.5
T20°CVnom	3.9	0.0012	2.5
T10°CVnom	3.9	0.0022	2.5
T0°CVnom	3.9	0.0022	2.5
T-10°CVnom	3.9	0.0012	2.5
T-20°CVnom	3.9	0.0022	2.5
T-30°CVnom	3.9	0.0012	2.5

WCDMA V			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
T20°CVmax	4.29	0.0012	2.5
T20°CVmin	3.51	0.0015	2.5
T55°CVnom	3.9	0.0024	2.5
T50°CVnom	3.9	0.0012	2.5
T40°CVnom	3.9	0.0012	2.5
T30°CVnom	3.9	0.0024	2.5
T20°CVnom	3.9	0.0012	2.5
T10°CVnom	3.9	0.0012	2.5
T0°CVnom	3.9	0.0015	2.5
T-10°CVnom	3.9	0.0010	2.5
T-20°CVnom	3.9	-0.0012	2.5
T-30°CVnom	3.9	0.0010	2.5

LTE Band 5, CB: 1.4MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
T20°CVmax	4.29	0.002	2.5
T20°CVmin	3.51	0.002	2.5
T55°CVnom	3.9	0.002	2.5
T50°CVnom	3.9	0.001	2.5
T40°CVnom	3.9	0.002	2.5
T30°CVnom	3.9	0.001	2.5
T20°CVnom	3.9	0.001	2.5
T10°CVnom	3.9	0.002	2.5
T0°CVnom	3.9	0.002	2.5
T-10°CVnom	3.9	0.002	2.5
T-20°CVnom	3.9	-0.001	2.5
T-30°CVnom	3.9	0.001	2.5

LTE Band 5, CB: 3MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
T20°CVmax	4.29	0.002	2.5
T20°CVmin	3.51	0.001	2.5
T55°CVnom	3.9	0.002	2.5
T50°CVnom	3.9	0.001	2.5
T40°CVnom	3.9	0.001	2.5
T30°CVnom	3.9	0.001	2.5
T20°CVnom	3.9	0.001	2.5
T10°CVnom	3.9	0.002	2.5
T0°CVnom	3.9	0.002	2.5
T-10°CVnom	3.9	0.002	2.5
T-20°CVnom	3.9	-0.001	2.5
T-30°CVnom	3.9	-0.002	2.5

LTE Band 5, CB: 5MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
T20°CVmax	4.29	0.001	2.5
T20°CVmin	3.51	0.001	2.5
T55°CVnom	3.9	0.001	2.5
T50°CVnom	3.9	0.001	2.5
T40°CVnom	3.9	0.001	2.5
T30°CVnom	3.9	0.002	2.5
T20°CVnom	3.9	0.001	2.5
T10°CVnom	3.9	0.002	2.5
T0°CVnom	3.9	0.002	2.5
T-10°CVnom	3.9	0.002	2.5
T-20°CVnom	3.9	-0.001	2.5
T-30°CVnom	3.9	0.001	2.5

LTE Band 5, CB: 10MHz			
Temperature (°C)	Voltage (dc)	Frequency Drift (ppm)	Limit (ppm)
T20°CVmax	4.29	0.001	2.5
T20°CVmin	3.51	0.002	2.5
T55°CVnom	3.9	0.002	2.5
T50°CVnom	3.9	0.001	2.5
T40°CVnom	3.9	0.001	2.5
T30°CVnom	3.9	0.002	2.5
T20°CVnom	3.9	0.002	2.5
T10°CVnom	3.9	0.002	2.5
T0°CVnom	3.9	0.002	2.5
T-10°CVnom	3.9	-0.001	2.5
T-20°CVnom	3.9	0.001	2.5
T-30°CVnom	3.9	0.001	2.5

4 Test laboratory information

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

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

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

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Kwei Shan

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Kwei Shan Site II

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