

FCC Test Report

FCC ID : SQG-PINNACLE1
Equipment : LTE Modem
Model No. : Pinnacle 100
Brand Name : Laird Connectivity
Applicant : Laird Connectivity, Inc.
Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA
Standard : 47 CFR FCC Part 27 Subpart L
Received Date : Apr. 16, 2019
Tested Date : Apr. 28 ~ May 29, 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
FG950303P27L	Rev. 01	Initial issue	Jun. 11, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 27.50(d)(4)	Equivalent Isotropically Radiated Power	Power[dBm]: 27.78	Pass
2.1053 / 27.53(h)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(h)	Conducted Emissions	Meet the requirement of limit	Pass
27.53(h)	Band Edge Measurement	Meet the requirement of limit	Pass
2.1049 / 27.53(h)	Occupied Bandwidth	Note	Pass
27.50(d)(5)	Peak to Average Ratio	Note	Pass
2.1055 / 27.54	Frequency Stability	Note	Pass

Note: Refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

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 Specification of the Equipment under Test (EUT)

Operating Frequency	LTE Band 4
Modulation	QPSK / 16QAM
UE category	M1

1.1.2 Antenna Details

LTE

Ant. No.	Brand / Model	Type	Connector	Gain (dBi)	Operating Band
External					
1	Laird / DBA6927C1	Dipole	U.FL	2.2	LTE Band 4
2	Laird / EFF6925A3S	Flex	U.FL	3.7	LTE Band 4
3	ASC / RFDPA131000SMTB803	Dipole	U.FL	3.04	LTE Band 4
Integrated					
4	Laird/110-00665	Stamped Metal	N/A	2.6	LTE Band 4

1.1.3 EUT Operational Condition

Power Supply Type	3.7 Vdc
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1.1.4 Accessories

N/A

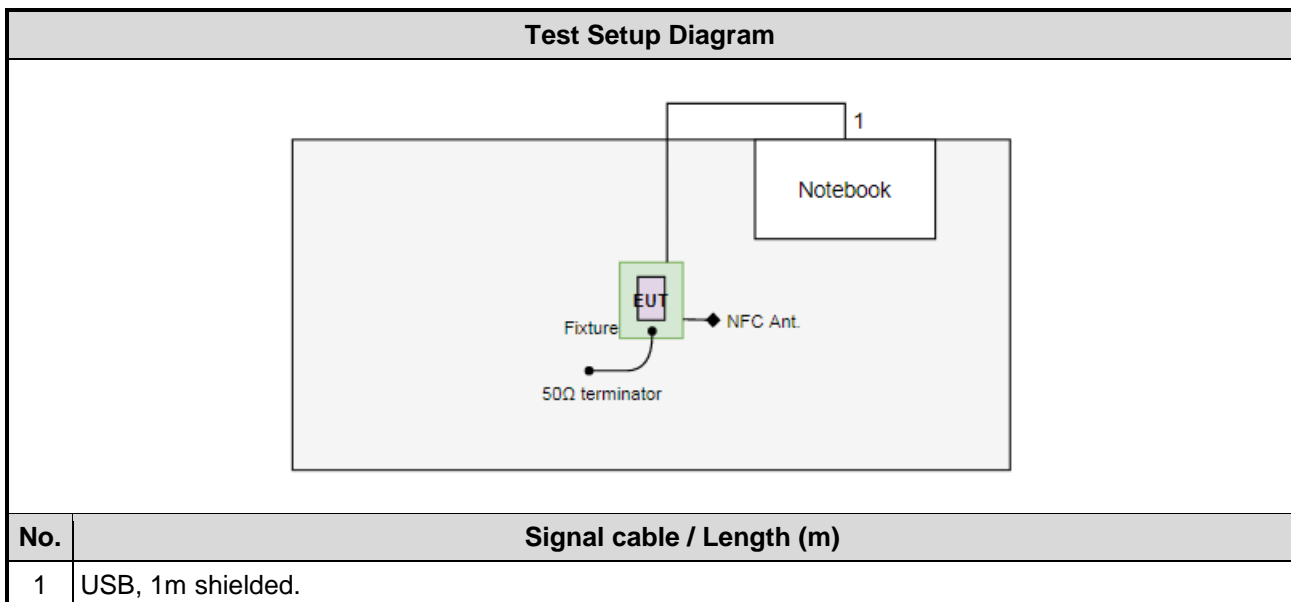
1.1.5 Operating Channel List

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

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E6440	DoC	---
2	USB Cable	I-Gota	micro to A	---	---
3	50Ω terminator	---	---	---	---
4	Fixture	---	---	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Apr. 28 ~ May 29, 2020				
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	101657	Feb. 14, 2020	Feb. 13, 2021
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)				
Tested Date	May 11 ~ May 15, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
DC POWER SOURCE	GW INSTRON	GPC-6030D	GES855395	Oct. 29, 2019	Oct. 28, 2020
Measurement Software	Sporton	Sporton_1	1.3.30	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 27 Subpart L

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

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

Measurement Uncertainty	
Parameters	Uncertainty
Conducted emission	±2.715 dB
Radiated emission ≤ 1GHz	±3.41 dB
Radiated emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	24-26°C / 62-67%	Akun Chung

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

2.2 The Worst Test Modes and Channel Details

LTE Band 4			
Test item	Channel Bandwidth	Modulation	Test channel
E.I.R.P Conducted Emissions	1.4 MHz	QPSK / 16QAM	19957 / 20175 / 20393
	3 MHz	QPSK / 16QAM	19965 / 20175 / 20385
	5 MHz	QPSK / 16QAM	19975 / 20175 / 20375
	10 MHz	QPSK / 16QAM	20000 / 20175 / 20350
	15 MHz	QPSK / 16QAM	20025 / 20175 / 20325
	20 MHz	QPSK / 16QAM	20050 / 20175 / 20300
Radiated Emission ≤ 1GHz	1.4 MHz	QPSK	19957
	3 MHz	QPSK	19965
	5 MHz	16QAM	19975
	10 MHz	16QAM	20175
	15 MHz	QPSK	20025
	20 MHz	16QAM	20300
Radiated Emission > 1GHz	1.4 MHz	QPSK	19957
		QPSK	20175
		QPSK	20393
	3 MHz	QPSK	19965
		QPSK	20175
		QPSK	20385
	5 MHz	16QAM	19975
		16QAM	20175
		QPSK	20375
	10 MHz	16QAM	20000
		16QAM	20175
		16QAM	20350
15 MHz	QPSK	20025	
	16QAM	20175	
	16QAM	20325	
20 MHz	16QAM	20050	
	16QAM	20175	
	16QAM	20300	
Band Edge	1.4 MHz	QPSK / 16QAM	19957 20393
	3 MHz	QPSK / 16QAM	19965 20385
	5 MHz	QPSK / 16QAM	19975 20375
	10 MHz	QPSK / 16QAM	20000 20350
	15 MHz	QPSK / 16QAM	20025 20325
	20 MHz	QPSK / 16QAM	20050 20300

Note:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.
- 50Ω terminators is connected to antenna port of EUT for radiated emission measurement.

3 Test Results

3.1 Equivalent Isotropically Radiated Power

3.1.1 Limit of Equivalent Isotropically Radiated Power

Mobile and portable stations are limited to 1 watts EIRP.

3.1.2 Test Procedures

For Conducted power measurement:

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

For EIRP measurement:

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

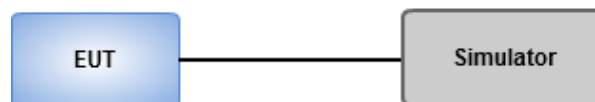
1. $EIRP = P_T + G_T - L_C$

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.

3.1.3 Test Setup



3.1.4 Test Result of Equivalent Isotropically Radiated Power (dBm)

LTE Cat-M1 Band 4, BW (MHz): 1.4												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Low Range	19957	1710.7	QPSK	1	0	0	-85	24.08	3.7	27.78	0.600	1
			QPSK	1	5	0	-85	23.69	3.7	27.39	0.548	1
			QPSK	3	3	0	-85	21.96	3.7	25.66	0.368	1
			QPSK	6	0	0	-85	21.12	3.7	24.82	0.303	1
			16QAM	1	0	0	-85	21.57	3.7	25.27	0.337	1
			16QAM	1	5	0	-85	21.64	3.7	25.34	0.342	1
			16QAM	3	0	0	-85	20.77	3.7	24.47	0.280	1
			16QAM	5	0	0	-85	20.41	3.7	24.11	0.258	1
Mid. Range	20175	1732.5	QPSK	1	0	0	-85	24.04	3.7	27.74	0.594	1
			QPSK	1	5	0	-85	23.62	3.7	27.32	0.540	1
			QPSK	3	3	0	-85	21.99	3.7	25.69	0.371	1
			QPSK	6	0	0	-85	21.14	3.7	24.84	0.305	1
			16QAM	1	0	0	-85	21.56	3.7	25.26	0.336	1
			16QAM	1	5	0	-85	21.64	3.7	25.34	0.342	1
			16QAM	3	0	0	-85	20.81	3.7	24.51	0.282	1
			16QAM	5	0	0	-85	20.47	3.7	24.17	0.261	1
High Range	20393	1754.3	QPSK	1	0	0	-85	23.85	3.7	27.55	0.569	1
			QPSK	1	5	0	-85	23.47	3.7	27.17	0.521	1
			QPSK	3	3	0	-85	21.88	3.7	25.58	0.361	1
			QPSK	6	0	0	-85	20.97	3.7	24.67	0.293	1
			16QAM	1	0	0	-85	21.37	3.7	25.07	0.321	1
			16QAM	1	5	0	-85	21.51	3.7	25.21	0.332	1
			16QAM	3	0	0	-85	20.68	3.7	24.38	0.274	1
			16QAM	5	0	0	-85	20.37	3.7	24.07	0.255	1

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 3												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Low Range	19965	1711.5	QPSK	1	0	0	-85	22.92	3.7	26.62	0.459	1
			QPSK	1	5	0	-85	22.91	3.7	26.61	0.458	1
			QPSK	1	0	1	-85	22.84	3.7	26.54	0.451	1
			QPSK	1	5	1	-85	22.92	3.7	26.62	0.459	1
			QPSK	3	3	0	-85	21.93	3.7	25.63	0.366	1
			QPSK	3	3	1	-85	21.81	3.7	25.51	0.356	1
			QPSK	6	0	0	-85	21.01	3.7	24.71	0.296	1
			QPSK	6	0	1	-85	20.94	3.7	24.64	0.291	1
			16QAM	1	0	0	-85	21.11	3.7	24.81	0.303	1
			16QAM	1	5	0	-85	21.12	3.7	24.82	0.303	1
			16QAM	1	0	1	-85	22.87	3.7	26.57	0.454	1
			16QAM	1	5	1	-85	22.86	3.7	26.56	0.453	1
			16QAM	3	0	0	-85	20.58	3.7	24.28	0.268	1
			16QAM	3	3	1	-85	20.55	3.7	24.25	0.266	1
			16QAM	5	0	0	-85	20.39	3.7	24.09	0.256	1
			16QAM	5	0	1	-85	20.32	3.7	24.02	0.252	1
Mid. Range	20175	1732.5	QPSK	1	0	0	-85	22.81	3.7	26.51	0.448	1
			QPSK	1	5	0	-85	22.78	3.7	26.48	0.445	1
			QPSK	1	0	1	-85	22.82	3.7	26.52	0.449	1
			QPSK	1	5	1	-85	22.84	3.7	26.54	0.451	1
			QPSK	3	3	0	-85	21.84	3.7	25.54	0.358	1
			QPSK	3	3	1	-85	21.82	3.7	25.52	0.356	1
			QPSK	6	0	0	-85	20.94	3.7	24.64	0.291	1
			QPSK	6	0	1	-85	20.96	3.7	24.66	0.292	1
			16QAM	1	0	0	-85	20.99	3.7	24.69	0.294	1
			16QAM	1	5	0	-85	20.98	3.7	24.68	0.294	1
			16QAM	1	0	1	-85	21.02	3.7	24.72	0.296	1
			16QAM	1	5	1	-85	20.84	3.7	24.54	0.284	1
			16QAM	3	0	0	-85	20.47	3.7	24.17	0.261	1
			16QAM	3	3	1	-85	20.44	3.7	24.14	0.259	1
			16QAM	5	0	0	-85	21.19	3.7	24.89	0.308	1
			16QAM	5	0	1	-85	21.12	3.7	24.82	0.303	1

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 3												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
High Range	20385	1753.5	QPSK	1	0	0	-85	22.59	3.7	26.29	0.426	1
			QPSK	1	5	0	-85	22.58	3.7	26.28	0.425	1
			QPSK	1	0	1	-85	22.68	3.7	26.38	0.435	1
			QPSK	1	5	1	-85	22.71	3.7	26.41	0.438	1
			QPSK	3	3	0	-85	21.61	3.7	25.31	0.340	1
			QPSK	3	3	1	-85	21.77	3.7	25.47	0.352	1
			QPSK	6	0	0	-85	20.76	3.7	24.46	0.279	1
			QPSK	6	0	1	-85	20.89	3.7	24.59	0.288	1
			16QAM	1	0	0	-85	20.85	3.7	24.55	0.285	1
			16QAM	1	5	0	-85	20.87	3.7	24.57	0.286	1
			16QAM	1	0	1	-85	20.95	3.7	24.65	0.292	1
			16QAM	1	5	1	-85	20.99	3.7	24.69	0.294	1
			16QAM	3	0	0	-85	20.43	3.7	24.13	0.259	1
			16QAM	3	3	1	-85	20.75	3.7	24.45	0.279	1
			16QAM	5	0	0	-85	20.3	3.7	24	0.251	1
			16QAM	5	0	1	-85	20.31	3.7	24.01	0.252	1

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 5												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Low Range	19975	1712.5	QPSK	1	0	0	-85	22.77	3.7	26.47	0.444	1
			QPSK	1	5	0	-85	22.75	3.7	26.45	0.442	1
			QPSK	1	0	1	-85	22.67	3.7	26.37	0.434	1
			QPSK	1	5	1	-85	22.69	3.7	26.39	0.436	1
			QPSK	1	0	3	-85	22.76	3.7	26.46	0.443	1
			QPSK	1	5	3	-85	22.81	3.7	26.51	0.448	1
			QPSK	3	0	0	-85	21.74	3.7	25.44	0.350	1
			QPSK	3	3	3	-85	21.97	3.7	25.67	0.369	1
			QPSK	6	0	0	-85	21.92	3.7	25.62	0.365	1
			QPSK	6	0	1	-85	21.79	3.7	25.49	0.354	1
			QPSK	6	0	3	-85	21.96	3.7	25.66	0.368	1
			16QAM	1	0	0	-85	23.12	3.7	26.82	0.481	1
			16QAM	1	5	0	-85	23.18	3.7	26.88	0.488	1
			16QAM	1	0	1	-85	22.35	3.7	26.05	0.403	1
			16QAM	1	5	1	-85	22.84	3.7	26.54	0.451	1
			16QAM	1	0	3	-85	22.89	3.7	26.59	0.456	1
			16QAM	1	5	3	-85	22.23	3.7	25.93	0.392	1
			16QAM	3	0	0	-85	21.72	3.7	25.42	0.348	1
			16QAM	3	3	3	-85	21.84	3.7	25.54	0.358	1
			16QAM	5	0	0	-85	20.86	3.7	24.56	0.286	1
16QAM	5	0	1	-85	20.48	3.7	24.18	0.262	1			
16QAM	5	0	3	-85	20.58	3.7	24.28	0.268	1			

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 5												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Mid. Range	20175	1732.5	QPSK	1	0	0	-85	22.79	3.7	26.49	0.446	1
			QPSK	1	5	0	-85	22.84	3.7	26.54	0.451	1
			QPSK	1	0	1	-85	22.86	3.7	26.56	0.453	1
			QPSK	1	5	1	-85	22.81	3.7	26.51	0.448	1
			QPSK	1	0	3	-85	22.98	3.7	26.68	0.466	1
			QPSK	1	5	3	-85	22.94	3.7	26.64	0.461	1
			QPSK	3	0	0	-85	21.79	3.7	25.49	0.354	1
			QPSK	3	3	3	-85	21.91	3.7	25.61	0.364	1
			QPSK	6	0	0	-85	21.68	3.7	25.38	0.345	1
			QPSK	6	0	1	-85	21.76	3.7	25.46	0.352	1
			QPSK	6	0	3	-85	21.87	3.7	25.57	0.361	1
			16QAM	1	0	0	-85	23.01	3.7	26.71	0.469	1
			16QAM	1	5	0	-85	22.99	3.7	26.69	0.467	1
			16QAM	1	0	1	-85	22.98	3.7	26.68	0.466	1
			16QAM	1	5	1	-85	22.17	3.7	25.87	0.386	1
			16QAM	1	0	3	-85	22.96	3.7	26.66	0.463	1
			16QAM	1	5	3	-85	22.23	3.7	25.93	0.392	1
			16QAM	3	0	0	-85	21.76	3.7	25.46	0.352	1
			16QAM	3	3	3	-85	21.86	3.7	25.56	0.360	1
			16QAM	5	0	0	-85	20.47	3.7	24.17	0.261	1
16QAM	5	0	1	-85	20.42	3.7	24.12	0.258	1			
16QAM	5	0	3	-85	20.44	3.7	24.14	0.259	1			

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 5												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
High Range	20375	1752.5	QPSK	1	0	0	-85	22.67	3.7	26.37	0.434	1
			QPSK	1	5	0	-85	22.97	3.7	26.67	0.465	1
			QPSK	1	0	1	-85	22.89	3.7	26.59	0.456	1
			QPSK	1	5	1	-85	22.71	3.7	26.41	0.438	1
			QPSK	1	0	3	-85	22.91	3.7	26.61	0.458	1
			QPSK	1	5	3	-85	22.67	3.7	26.37	0.434	1
			QPSK	3	0	0	-85	21.77	3.7	25.47	0.352	1
			QPSK	3	3	3	-85	21.94	3.7	25.64	0.366	1
			QPSK	6	0	0	-85	21.81	3.7	25.51	0.356	1
			QPSK	6	0	1	-85	21.78	3.7	25.48	0.353	1
			QPSK	6	0	3	-85	22.01	3.7	25.71	0.372	1
			16QAM	1	0	0	-85	22.17	3.7	25.87	0.386	1
			16QAM	1	5	0	-85	22.83	3.7	26.53	0.450	1
			16QAM	1	0	1	-85	22.14	3.7	25.84	0.384	1
			16QAM	1	5	1	-85	22.13	3.7	25.83	0.383	1
			16QAM	1	0	3	-85	22.13	3.7	25.83	0.383	1
			16QAM	1	5	3	-85	22.23	3.7	25.93	0.392	1
			16QAM	3	0	0	-85	21.56	3.7	25.26	0.336	1
			16QAM	3	3	3	-85	21.96	3.7	25.66	0.368	1
			16QAM	5	0	0	-85	20.42	3.7	24.12	0.258	1
16QAM	5	0	1	-85	20.44	3.7	24.14	0.259	1			
16QAM	5	0	3	-85	20.44	3.7	24.14	0.259	1			

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 10												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Low Range	20000	1715	QPSK	1	0	0	-85	22.76	3.7	26.46	0.443	1
			QPSK	1	5	0	-85	22.96	3.7	26.66	0.463	1
			QPSK	1	0	3	-85	22.99	3.7	26.69	0.467	1
			QPSK	1	5	3	-85	22.87	3.7	26.57	0.454	1
			QPSK	1	0	7	-85	22.81	3.7	26.51	0.448	1
			QPSK	1	5	7	-85	22.85	3.7	26.55	0.452	1
			QPSK	4	0	0	-85	22.86	3.7	26.56	0.453	1
			QPSK	4	2	7	-85	22.83	3.7	26.53	0.450	1
			QPSK	6	0	0	-85	21.81	3.7	25.51	0.356	1
			QPSK	6	0	7	-85	21.92	3.7	25.62	0.365	1
			16QAM	1	0	0	-85	23.05	3.7	26.75	0.473	1
			16QAM	1	5	0	-85	22.99	3.7	26.69	0.467	1
			16QAM	1	0	3	-85	23.01	3.7	26.71	0.469	1
			16QAM	1	5	3	-85	23.01	3.7	26.71	0.469	1
			16QAM	1	0	7	-85	22.98	3.7	26.68	0.466	1
			16QAM	1	5	7	-85	22.93	3.7	26.63	0.460	1
			16QAM	4	2	0	-85	22.16	3.7	25.86	0.385	1
			16QAM	4	2	7	-85	22.23	3.7	25.93	0.392	1
			16QAM	5	0	0	-85	21.59	3.7	25.29	0.338	1
			16QAM	5	0	7	-85	21.68	3.7	25.38	0.345	1

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 10												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Mid. Range	20175	1732.5	QPSK	1	0	0	-85	22.91	3.7	26.61	0.458	1
			QPSK	1	5	0	-85	22.96	3.7	26.66	0.463	1
			QPSK	1	0	3	-85	22.89	3.7	26.59	0.456	1
			QPSK	1	5	3	-85	22.83	3.7	26.53	0.450	1
			QPSK	1	0	7	-85	22.86	3.7	26.56	0.453	1
			QPSK	1	5	7	-85	22.78	3.7	26.48	0.445	1
			QPSK	4	0	0	-85	22.87	3.7	26.57	0.454	1
			QPSK	4	2	7	-85	22.88	3.7	26.58	0.455	1
			QPSK	6	0	0	-85	21.94	3.7	25.64	0.366	1
			QPSK	6	0	7	-85	21.92	3.7	25.62	0.365	1
			16QAM	1	0	0	-85	22.97	3.7	26.67	0.465	1
			16QAM	1	5	0	-85	22.43	3.7	26.13	0.410	1
			16QAM	1	0	3	-85	23.06	3.7	26.76	0.474	1
			16QAM	1	5	3	-85	23.02	3.7	26.72	0.470	1
			16QAM	1	0	7	-85	22.04	3.7	25.74	0.375	1
			16QAM	1	5	7	-85	22.97	3.7	26.67	0.465	1
			16QAM	4	2	0	-85	22.17	3.7	25.87	0.386	1
			16QAM	4	2	7	-85	22.1	3.7	25.8	0.380	1
16QAM	5	0	0	-85	21.56	3.7	25.26	0.336	1			
16QAM	5	0	7	-85	21.72	3.7	25.42	0.348	1			

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 10												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
High Range	20350	1750	QPSK	1	0	0	-85	22.71	3.7	26.41	0.438	1
			QPSK	1	5	0	-85	22.76	3.7	26.46	0.443	1
			QPSK	1	5	7	-85	22.77	3.7	26.47	0.444	1
			QPSK	1	0	3	-85	22.72	3.7	26.42	0.439	1
			QPSK	1	5	3	-85	22.76	3.7	26.46	0.443	1
			QPSK	1	0	7	-85	22.73	3.7	26.43	0.440	1
			QPSK	4	0	0	-85	22.68	3.7	26.38	0.435	1
			QPSK	4	2	7	-85	22.78	3.7	26.48	0.445	1
			QPSK	6	0	0	-85	21.87	3.7	25.57	0.361	1
			QPSK	6	0	7	-85	21.87	3.7	25.57	0.361	1
			16QAM	1	0	0	-85	22.91	3.7	26.61	0.458	1
			16QAM	1	5	0	-85	22.96	3.7	26.66	0.463	1
			16QAM	1	0	3	-85	22.13	3.7	25.83	0.383	1
			16QAM	1	5	3	-85	21.97	3.7	25.67	0.369	1
			16QAM	1	0	7	-85	21.97	3.7	25.67	0.369	1
			16QAM	1	5	7	-85	21.96	3.7	25.66	0.368	1
			16QAM	4	2	0	-85	22.08	3.7	25.78	0.378	1
			16QAM	4	2	7	-85	22.98	3.7	26.68	0.466	1
			16QAM	5	0	0	-85	21.65	3.7	25.35	0.343	1
			16QAM	5	0	7	-85	21.54	3.7	25.24	0.334	1

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 15												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Low Range	20025	1717.5	QPSK	1	0	0	-85	22.96	3.7	26.66	0.463	1
			QPSK	1	5	0	-85	22.91	3.7	26.61	0.458	1
			QPSK	1	0	5	-85	22.93	3.7	26.63	0.460	1
			QPSK	1	5	5	-85	22.92	3.7	26.62	0.459	1
			QPSK	1	0	11	-85	22.92	3.7	26.62	0.459	1
			QPSK	1	5	11	-85	22.93	3.7	26.63	0.460	1
			QPSK	3	0	0	-85	23.01	3.7	26.71	0.469	1
			QPSK	3	3	11	-85	22.94	3.7	26.64	0.461	1
			QPSK	6	0	0	-85	23.05	3.7	26.75	0.473	1
			QPSK	6	0	11	-85	22.95	3.7	26.65	0.462	1
			16QAM	1	0	0	-85	23.01	3.7	26.71	0.469	1
			16QAM	1	5	0	-85	23.02	3.7	26.72	0.470	1
			16QAM	1	0	5	-85	23.04	3.7	26.74	0.472	1
			16QAM	1	5	5	-85	23	3.7	26.7	0.468	1
			16QAM	1	0	11	-85	22.99	3.7	26.69	0.467	1
			16QAM	1	5	11	-85	23	3.7	26.7	0.468	1
			16QAM	3	0	0	-85	22.69	3.7	26.39	0.436	1
			16QAM	3	3	11	-85	22.9	3.7	26.6	0.457	1
			16QAM	5	0	0	-85	22.56	3.7	26.26	0.423	1
			16QAM	5	0	11	-85	22.84	3.7	26.54	0.451	1

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 15												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Mid. Range	20175	1732.5	QPSK	1	0	0	-85	22.82	3.7	26.52	0.449	1
			QPSK	1	5	0	-85	22.93	3.7	26.63	0.460	1
			QPSK	1	0	5	-85	22.87	3.7	26.57	0.454	1
			QPSK	1	5	5	-85	22.91	3.7	26.61	0.458	1
			QPSK	1	0	11	-85	22.93	3.7	26.63	0.460	1
			QPSK	1	5	11	-85	22.87	3.7	26.57	0.454	1
			QPSK	3	0	0	-85	22.98	3.7	26.68	0.466	1
			QPSK	3	3	11	-85	22.94	3.7	26.64	0.461	1
			QPSK	6	0	0	-85	22.91	3.7	26.61	0.458	1
			QPSK	6	0	11	-85	22.98	3.7	26.68	0.466	1
			16QAM	1	0	0	-85	22.87	3.7	26.57	0.454	1
			16QAM	1	5	0	-85	23.02	3.7	26.72	0.470	1
			16QAM	1	0	5	-85	23.01	3.7	26.71	0.469	1
			16QAM	1	5	5	-85	22.99	3.7	26.69	0.467	1
			16QAM	1	0	11	-85	23.01	3.7	26.71	0.469	1
			16QAM	1	5	11	-85	23.02	3.7	26.72	0.470	1
			16QAM	3	0	0	-85	22.97	3.7	26.67	0.465	1
			16QAM	3	3	11	-85	22.91	3.7	26.61	0.458	1
16QAM	5	0	0	-85	22.76	3.7	26.46	0.443	1			
16QAM	5	0	11	-85	22.82	3.7	26.52	0.449	1			

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Cat-M1 Band 4, BW (MHz): 15												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
High Range	20325	1747.5	QPSK	1	0	0	-85	22.76	3.7	26.46	0.443	1
			QPSK	1	5	11	-85	22.72	3.7	26.42	0.439	1
			QPSK	1	0	5	-85	22.71	3.7	26.41	0.438	1
			QPSK	1	5	5	-85	22.77	3.7	26.47	0.444	1
			QPSK	1	0	11	-85	22.76	3.7	26.46	0.443	1
			QPSK	3	0	0	-85	22.91	3.7	26.61	0.458	1
			QPSK	3	3	11	-85	22.75	3.7	26.45	0.442	1
			QPSK	6	0	0	-85	22.84	3.7	26.54	0.451	1
			QPSK	6	0	11	-85	22.85	3.7	26.55	0.452	1
			16QAM	1	0	0	-85	23.03	3.7	26.73	0.471	1
			16QAM	1	5	0	-85	23.01	3.7	26.71	0.469	1
			16QAM	1	0	5	-85	22.45	3.7	26.15	0.412	1
			16QAM	1	5	5	-85	22.47	3.7	26.17	0.414	1
			16QAM	1	0	11	-85	22.33	3.7	26.03	0.401	1
			16QAM	1	5	11	-85	21.84	3.7	25.54	0.358	1
			16QAM	3	0	0	-85	22.89	3.7	26.59	0.456	1
			16QAM	3	3	11	-85	22.65	3.7	26.35	0.432	1
			16QAM	5	0	0	-85	22.52	3.7	26.22	0.419	1
			16QAM	5	0	11	-85	22.65	3.7	26.35	0.432	1
			16QAM	5	0	11	-85	22.86	3.7	26.56	0.453	1

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Band 4, BW (MHz): 20												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Low Range	20050	1720	QPSK	1	0	0	-85	23.01	3.7	26.71	0.469	1
			QPSK	1	5	0	-85	22.84	3.7	26.54	0.451	1
			QPSK	1	0	7	-85	22.91	3.7	26.61	0.458	1
			QPSK	1	5	7	-85	22.96	3.7	26.66	0.463	1
			QPSK	1	0	15	-85	22.85	3.7	26.55	0.452	1
			QPSK	1	5	15	-85	22.88	3.7	26.58	0.455	1
			QPSK	3	0	0	-85	23.01	3.7	26.71	0.469	1
			QPSK	3	3	15	-85	22.86	3.7	26.56	0.453	1
			QPSK	6	0	0	-85	22.97	3.7	26.67	0.465	1
			QPSK	6	0	15	-85	22.89	3.7	26.59	0.456	1
			16QAM	1	0	0	-85	22.99	3.7	26.69	0.467	1
			16QAM	1	5	0	-85	22.87	3.7	26.57	0.454	1
			16QAM	1	0	7	-85	22.93	3.7	26.63	0.460	1
			16QAM	1	5	7	-85	22.9	3.7	26.6	0.457	1
			16QAM	1	0	15	-85	23.03	3.7	26.73	0.471	1
			16QAM	1	5	15	-85	23.02	3.7	26.72	0.470	1
			16QAM	3	0	0	-85	22.91	3.7	26.61	0.458	1
			16QAM	3	3	15	-85	22.93	3.7	26.63	0.460	1
			16QAM	5	0	0	-85	22.78	3.7	26.48	0.445	1
			16QAM	5	0	15	-85	22.88	3.7	26.58	0.455	1

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Band 4, BW (MHz): 20												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
Mid. Range	20175	1732.5	QPSK	1	0	0	-85	22.97	3.7	26.67	0.465	1
			QPSK	1	5	0	-85	22.88	3.7	26.58	0.455	1
			QPSK	1	0	7	-85	22.86	3.7	26.56	0.453	1
			QPSK	1	5	7	-85	22.74	3.7	26.44	0.441	1
			QPSK	1	0	15	-85	22.71	3.7	26.41	0.438	1
			QPSK	1	5	15	-85	22.74	3.7	26.44	0.441	1
			QPSK	3	0	0	-85	22.99	3.7	26.69	0.467	1
			QPSK	3	3	15	-85	22.76	3.7	26.46	0.443	1
			QPSK	6	0	0	-85	22.91	3.7	26.61	0.458	1
			QPSK	6	0	15	-85	22.93	3.7	26.63	0.460	1
			16QAM	1	0	0	-85	22.89	3.7	26.59	0.456	1
			16QAM	1	5	0	-85	22.96	3.7	26.66	0.463	1
			16QAM	1	0	7	-85	22.93	3.7	26.63	0.460	1
			16QAM	1	5	7	-85	22.97	3.7	26.67	0.465	1
			16QAM	1	0	15	-85	23.01	3.7	26.71	0.469	1
			16QAM	1	5	15	-85	22.93	3.7	26.63	0.460	1
			16QAM	3	0	0	-85	22.87	3.7	26.57	0.454	1
			16QAM	3	3	15	-85	22.94	3.7	26.64	0.461	1
			16QAM	5	0	0	-85	22.68	3.7	26.38	0.435	1
16QAM	5	0	15	-85	22.75	3.7	26.45	0.442	1			

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

LTE Band 4, BW (MHz): 20												
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Power (W)	E.I.R.P Limit (W)
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Power (dBm)				
High Range	20300	1745	QPSK	1	0	0	-85	22.85	3.7	26.55	0.452	1
			QPSK	1	5	0	-85	22.87	3.7	26.57	0.454	1
			QPSK	1	0	7	-85	22.77	3.7	26.47	0.444	1
			QPSK	1	5	7	-85	22.87	3.7	26.57	0.454	1
			QPSK	1	0	15	-85	22.81	3.7	26.51	0.448	1
			QPSK	1	5	15	-85	22.77	3.7	26.47	0.444	1
			QPSK	3	0	0	-85	22.95	3.7	26.65	0.462	1
			QPSK	3	3	15	-85	22.69	3.7	26.39	0.436	1
			QPSK	6	0	0	-85	22.87	3.7	26.57	0.454	1
			QPSK	6	0	15	-85	22.78	3.7	26.48	0.445	1
			16QAM	1	0	0	-85	23.02	3.7	26.72	0.470	1
			16QAM	1	5	0	-85	23.05	3.7	26.75	0.473	1
			16QAM	1	0	7	-85	22.98	3.7	26.68	0.466	1
			16QAM	1	5	7	-85	22.97	3.7	26.67	0.465	1
			16QAM	1	0	15	-85	22.57	3.7	26.27	0.424	1
			16QAM	1	5	15	-85	22.21	3.7	25.91	0.390	1
			16QAM	3	0	0	-85	22.77	3.7	26.47	0.444	1
			16QAM	3	3	15	-85	22.72	3.7	26.42	0.439	1
			16QAM	5	0	0	-85	22.68	3.7	26.38	0.435	1
			16QAM	5	0	15	-85	22.69	3.7	26.39	0.436	1

Note1: EIRP = Conducted Output Power + Antenna Gain.

Note2: Conducted power refers to test report of FCC ID: N7NHL78. Test report no.: RF181126C15-2

3.1.5 Verification of Conducted Output Power

LTE Cat-M1 Band 4, BW (MHz): 1.4								
Test Frequency ID	NUL	Frequency of Uplink (MHz)	Test Configuration Initial of Power				EUT	
			Modulation	RB Size	RB Offset	Narrowband Index	Cell Power (dBm/15 kHz)	Conducted Power (dBm)
Low Range	19957	1710.7	QPSK	1	0	0	-85	24.07
			QPSK	1	5	0	-85	24.07
			QPSK	3	3	0	-85	23.08
			QPSK	6	0	0	-85	22.01
			16QAM	1	0	0	-85	22.57
			16QAM	1	5	0	-85	22.61
			16QAM	3	0	0	-85	22.1
			16QAM	5	0	0	-85	21.77
Mid. Range	20175	1732.5	QPSK	1	0	0	-85	23.97
			QPSK	1	5	0	-85	23.96
			QPSK	3	3	0	-85	22.79
			QPSK	6	0	0	-85	21.9
			16QAM	1	0	0	-85	22.66
			16QAM	1	5	0	-85	22.6
			16QAM	3	0	0	-85	21.8
			16QAM	5	0	0	-85	21.55
High Range	20393	1754.3	QPSK	1	0	0	-85	23.9
			QPSK	1	5	0	-85	23.92
			QPSK	3	3	0	-85	22.96
			QPSK	6	0	0	-85	21.86
			16QAM	1	0	0	-85	22.51
			16QAM	1	5	0	-85	22.46
			16QAM	3	0	0	-85	22.01
			16QAM	5	0	0	-85	21.52

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

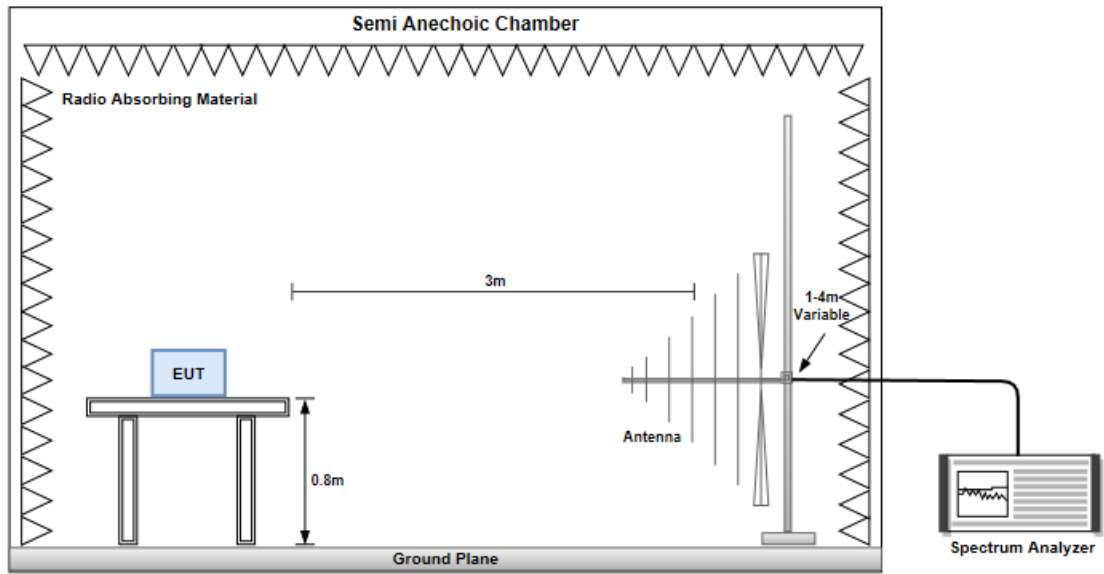
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13 dBm.

3.2.2 Test Procedures

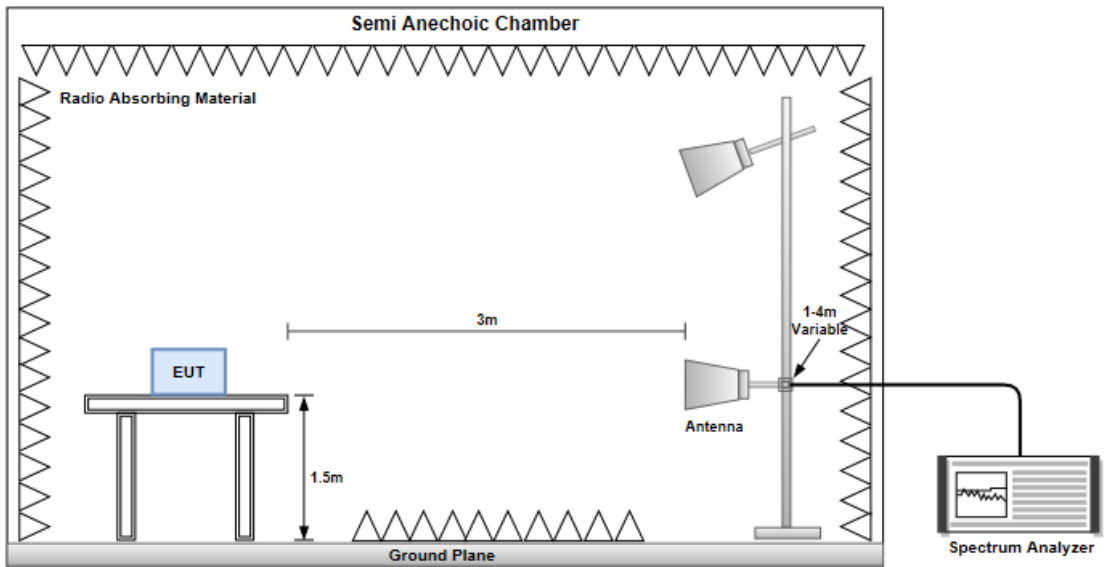
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions below 1GHz

Mode							
LTE Band 4, QPSK, CB:1.4 MHz, 1 RB Offset 0, Channel: 19957							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
142.894	H	-62.45	-13	-49.45	-61.84	-55.76	-6.69
166.94	H	-62.5	-13	-49.5	-61.84	-56.75	-5.75
254.324	H	-65.6	-13	-52.6	-62.57	-64.34	-1.26
264.81	H	-60.22	-13	-47.22	-57.55	-58.96	-1.26
287.57	H	-62.42	-13	-49.42	-60.54	-61.15	-1.27
311.27	H	-66.33	-13	-53.33	-65.56	-65.1	-1.23
51.58	V	-59.68	-13	-46.68	-57.9	-43.93	-15.75
90.25	V	-64.71	-13	-51.71	-64.88	-59.8	-4.91
142.89	V	-63.65	-13	-50.65	-65.83	-56.96	-6.69
159.35	V	-62.02	-13	-49.02	-64.84	-55.73	-6.29
166.95	V	-62.98	-13	-49.98	-65.84	-57.23	-5.75
312.88	V	-62.38	-13	-49.38	-63.85	-61.16	-1.22

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 4, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 19965							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
142.8	H	-63.03	-13	-50.03	-62.42	-56.34	-6.69
166.89	H	-62.83	-13	-49.83	-62.17	-57.08	-5.75
254.28	H	-65.89	-13	-52.89	-62.86	-64.63	-1.26
264.27	H	-63.24	-13	-50.24	-60.55	-61.98	-1.26
287.341	H	-61.53	-13	-48.53	-59.64	-60.26	-1.27
310.85	H	-63.69	-13	-50.69	-62.89	-62.46	-1.23
51.85	V	-59.57	-13	-46.57	-57.84	-43.88	-15.69
90.587	V	-64.69	-13	-51.69	-64.88	-59.77	-4.92
142.894	V	-65.65	-13	-52.65	-67.83	-58.96	-6.69
160.525	V	-61.72	-13	-48.72	-64.57	-55.49	-6.23
166.85	V	-62.95	-13	-49.95	-65.81	-57.19	-5.76
311.57	V	-63.31	-13	-50.31	-64.76	-62.08	-1.23

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 4, 16QAM, CB:5 MHz, 1 RB Offset 0, Channel: 19975						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
144.564	H	-62.45	-13	-49.45	-61.84	-55.8	-6.65
166.84	H	-61.9	-13	-48.9	-61.24	-56.14	-5.76
252.64	H	-65.98	-13	-52.98	-62.89	-64.72	-1.26
262.52	H	-61.29	-13	-48.29	-58.54	-60.03	-1.26
288.91	H	-62.23	-13	-49.23	-60.4	-60.96	-1.27
311.9	H	-65.62	-13	-52.62	-64.88	-64.39	-1.23
50.95	V	-59.55	-13	-46.55	-57.64	-43.65	-15.9
90.654	V	-64.65	-13	-51.65	-64.84	-59.73	-4.92
142.64	V	-63.66	-13	-50.66	-65.83	-56.96	-6.7
160.2	V	-61.87	-13	-48.87	-64.72	-55.61	-6.26
166.85	V	-63.02	-13	-50.02	-65.88	-57.26	-5.76
311.8	V	-63.49	-13	-50.49	-64.94	-62.26	-1.23

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 4, 16QAM, CB:10 MHz, 1 RB Offset 0, Channel: 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
143.49	H	-63.16	-13	-50.16	-62.55	-56.49	-6.67
167.74	H	-63.11	-13	-50.11	-62.45	-57.42	-5.69
253.1	H	-66.4	-13	-53.4	-63.33	-65.14	-1.26
263.77	H	-61.81	-13	-48.81	-59.11	-60.55	-1.26
288.99	H	-63.69	-13	-50.69	-61.86	-62.42	-1.27
311.3	H	-65.19	-13	-52.19	-64.42	-63.96	-1.23
51.34	V	-60.47	-13	-47.47	-58.64	-44.66	-15.81
90.14	V	-65.64	-13	-52.64	-65.8	-60.73	-4.91
143.49	V	-63.96	-13	-50.96	-66.17	-57.29	-6.67
159.01	V	-62.21	-13	-49.21	-65.02	-55.92	-6.29
167.74	V	-63.93	-13	-50.93	-66.8	-58.24	-5.69
311.3	V	-64.51	-13	-51.51	-65.96	-63.28	-1.23

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 4, QPSK, CB:15 MHz, 1 RB Offset 0, Channel: 20025						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
142.84	H	-63.5	-13	-50.5	-62.89	-56.81	-6.69
166.82	H	-62.53	-13	-49.53	-61.87	-56.77	-5.76
254.64	H	-65.87	-13	-52.87	-62.85	-64.61	-1.26
262.894	H	-61.45	-13	-48.45	-58.72	-60.19	-1.26
289.174	H	-64.54	-13	-51.54	-62.72	-63.27	-1.27
311.85	H	-66.23	-13	-53.23	-65.49	-65	-1.23
50.88	V	-59.77	-13	-46.77	-57.84	-43.86	-15.91
90.71	V	-64.67	-13	-51.67	-64.87	-59.75	-4.92
144.21	V	-63.04	-13	-50.04	-65.28	-56.38	-6.66
158.28	V	-62.11	-13	-49.11	-64.89	-55.8	-6.31
166.85	V	-62.96	-13	-49.96	-65.82	-57.2	-5.76
312.28	V	-63.36	-13	-50.36	-64.82	-62.13	-1.23

Note: EIRP = S.G Power value + Correction factor.

Mode	LTE Band 4, 16QAM, CB:20 MHz, 1 RB Offset 0, Channel: 20300						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
144.27	H	-62.45	-13	-49.45	-61.84	-55.79	-6.66
166.89	H	-62.48	-13	-49.48	-61.82	-56.73	-5.75
254.2	H	-67.86	-13	-54.86	-64.83	-66.6	-1.26
264.274	H	-63.54	-13	-50.54	-60.85	-62.28	-1.26
289.21	H	-63.34	-13	-50.34	-61.52	-62.07	-1.27
311.25	H	-64.31	-13	-51.31	-63.53	-63.08	-1.23
51.27	V	-59.45	-13	-46.45	-57.6	-43.63	-15.82
90.28	V	-65.93	-13	-52.93	-66.1	-61.02	-4.91
144.14	V	-63.62	-13	-50.62	-65.85	-56.96	-6.66
159.82	V	-57.03	-13	-44.03	-59.87	-50.76	-6.27
167.93	V	-63.86	-13	-50.86	-66.73	-58.18	-5.68
311.21	V	-63.4	-13	-50.4	-64.85	-62.17	-1.23

Note: EIRP = S.G Power value + Correction factor.

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode							
LTE Band 4, QPSK, CB:1.4 MHz, 1 RB Offset 0, Channel: 19957							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3420.5	H	-52.73	-13	-39.73	-63.69	-60.01	7.28
5130.75	H	-33.57	-13	-20.57	-50.26	-40.05	6.48
6841	H	-42.13	-13	-29.13	-61.16	-46.93	4.8
3420.5	V	-52.02	-13	-39.02	-62.98	-59.3	7.28
5130.75	V	-44.55	-13	-31.55	-61.12	-51.03	6.48
6841	V	-43.68	-13	-30.68	-62.84	-48.48	4.8

Mode							
LTE Band 4, QPSK, CB:1.4 MHz, 1 RB Offset 0, Channel: 20175							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3464.1	H	-52.05	-13	-39.05	-63.54	-59.21	7.16
5196.15	H	-33.32	-13	-20.32	-49.9	-39.86	6.54
6928.2	H	-41.29	-13	-28.29	-60.69	-45.78	4.49
3464.1	V	-51.82	-13	-38.82	-63.26	-58.98	7.16
5196.15	V	-44.06	-13	-31.06	-60.57	-50.6	6.54
6928.2	V	-43.05	-13	-30.05	-62.89	-47.54	4.49

Mode							
LTE Band 4, QPSK, CB:1.4 MHz, 1 RB Offset 0, Channel: 20393							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3507.7	H	-51.14	-13	-38.14	-63.15	-58.18	7.04
5261.55	H	-33.64	-13	-20.64	-50.18	-40.24	6.6
7015.4	H	-40.44	-13	-27.44	-60.14	-44.62	4.18
3507.7	V	-50.94	-13	-37.94	-62.85	-57.98	7.04
5261.55	V	-44.36	-13	-31.36	-60.88	-50.96	6.6
7015.4	V	-42.53	-13	-29.53	-62.97	-46.71	4.18

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 4, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 19965							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3421.02	H	-52.83	-13	-39.83	-63.79	-60.11	7.28
5131.53	H	-34.43	-13	-21.43	-51.11	-40.91	6.48
6842.04	H	-42.47	-13	-29.47	-61.5	-47.27	4.8
3421.02	V	-51.86	-13	-38.86	-62.83	-59.14	7.28
5131.53	V	-44.96	-13	-31.96	-61.53	-51.44	6.48
6842.04	V	-43.74	-13	-30.74	-62.91	-48.54	4.8

Mode							
LTE Band 4, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 20175							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3467.02	H	-52.22	-13	-39.22	-63.74	-59.37	7.15
5200.53	H	-33.67	-13	-20.67	-50.24	-40.21	6.54
6934.04	H	-41.81	-13	-28.81	-61.23	-46.28	4.47
3467.02	V	-51.4	-13	-38.4	-62.87	-58.55	7.15
5200.53	V	-44.96	-13	-31.96	-61.47	-51.5	6.54
6934.04	V	-42.89	-13	-29.89	-62.77	-47.36	4.47

Mode							
LTE Band 4, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 20385							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3509.02	H	-51.24	-13	-38.24	-63.27	-58.27	7.03
5263.53	H	-33.74	-13	-20.74	-50.28	-40.35	6.61
7018.04	H	-40.58	-13	-27.58	-60.29	-44.75	4.17
3509.02	V	-50.65	-13	-37.65	-62.58	-57.68	7.03
5263.53	V	-43.72	-13	-30.72	-60.24	-50.33	6.61
7018.04	V	-42.08	-13	-29.08	-62.53	-46.25	4.17

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 4,16QAM, CB:5 MHz, 1 RB Offset 0, Channel: 19975							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3422.68	H	-52.58	-13	-39.58	-63.56	-59.86	7.28
5134.02	H	-34.14	-13	-21.14	-50.82	-40.62	6.48
6845.36	H	-42.17	-13	-29.17	-61.21	-46.96	4.79
3422.68	V	-51.76	-13	-38.76	-62.74	-59.04	7.28
5134.02	V	-44.67	-13	-31.67	-61.23	-51.15	6.48
6845.36	V	-43.53	-13	-30.53	-62.72	-48.32	4.79

Mode							
LTE Band 4,16QAM, CB:5 MHz, 1 RB Offset 0, Channel: 20175							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3460.86	H	-51.83	-13	-38.83	-63.27	-59	7.17
5191.29	H	-33.68	-13	-20.68	-50.27	-40.21	6.53
6921.72	H	-41.17	-13	-28.17	-60.54	-45.68	4.51
3460.86	V	-52.02	-13	-39.02	-63.42	-59.19	7.17
5191.29	V	-44.23	-13	-31.23	-60.75	-50.76	6.53
6921.72	V	-43.17	-13	-30.17	-62.96	-47.68	4.51

Mode							
LTE Band 4,QPSK, CB:5 MHz, 1 RB Offset 0, Channel: 20375							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3502.68	H	-51.93	-13	-38.93	-63.89	-58.98	7.05
5254.02	H	-33.74	-13	-20.74	-50.28	-40.34	6.6
7005.36	H	-40.58	-13	-27.58	-60.28	-44.79	4.21
3502.68	V	-51.1	-13	-38.1	-62.96	-58.15	7.05
5254.02	V	-44.84	-13	-31.84	-61.36	-51.44	6.6
7005.36	V	-42.61	-13	-29.61	-63.01	-46.82	4.21

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 4, 16QAM, CB:10 MHz, 1 RB Offset 0, Channel: 20000							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3421.54	H	-52.88	-13	-39.88	-63.85	-60.16	7.28
5132.31	H	-33.95	-13	-20.95	-50.63	-40.43	6.48
6843.08	H	-42.54	-13	-29.54	-61.58	-47.33	4.79
3421.54	V	-51.9	-13	-38.9	-62.87	-59.18	7.28
5132.31	V	-44.69	-13	-31.69	-61.25	-51.17	6.48
6843.08	V	-43.59	-13	-30.59	-62.77	-48.38	4.79

Mode							
LTE Band 4, 16QAM, CB:10 MHz, 1 RB Offset 0, Channel: 20175							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3463.1	H	-52.22	-13	-39.22	-63.69	-59.38	7.16
5194.65	H	-32.93	-13	-19.93	-49.51	-39.47	6.54
6926.2	H	-41.13	-13	-28.13	-60.52	-45.63	4.5
3463.1	V	-52.11	-13	-39.11	-63.53	-59.27	7.16
5194.65	V	-44.19	-13	-31.19	-60.71	-50.73	6.54
6926.2	V	-43.15	-13	-30.15	-62.97	-47.65	4.5

Mode							
LTE Band 4, 16QAM, CB:10 MHz, 1 RB Offset 0, Channel: 20350							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3507.56	H	-51.92	-13	-38.92	-63.93	-58.96	7.04
5261.34	H	-34.71	-13	-21.71	-51.25	-41.31	6.6
7015.12	H	-41.51	-13	-28.51	-61.21	-45.69	4.18
3507.56	V	-51.9	-13	-38.9	-63.81	-58.94	7.04
5261.34	V	-44.7	-13	-31.7	-61.22	-51.3	6.6
7015.12	V	-42.53	-13	-29.53	-62.97	-46.71	4.18

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 4, QPSK, CB:15 MHz, 1 RB Offset 0, Channel: 20025							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3422.22	H	-53.83	-13	-40.83	-64.81	-61.11	7.28
5133.33	H	-35.16	-13	-22.16	-51.84	-41.64	6.48
6844.44	H	-43.41	-13	-30.41	-62.45	-48.2	4.79
3422.22	V	-52.95	-13	-39.95	-63.93	-60.23	7.28
5133.33	V	-45.69	-13	-32.69	-62.25	-52.17	6.48
6844.44	V	-44.38	-13	-31.38	-63.56	-49.17	4.79

Mode							
LTE Band 4, 16QAM, CB:15 MHz, 1 RB Offset 0, Channel: 20175							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3454.04	H	-52	-13	-39	-63.36	-59.19	7.19
5181.06	H	-33.52	-13	-20.52	-50.13	-40.04	6.52
6908.08	H	-41.46	-13	-28.46	-60.78	-46.02	4.56
3454.04	V	-51.58	-13	-38.58	-62.91	-58.77	7.19
5181.06	V	-43.92	-13	-30.92	-60.45	-50.44	6.52
6908.08	V	-42.2	-13	-29.2	-61.88	-46.76	4.56

Mode							
LTE Band 4, 16QAM, CB:15 MHz, 1 RB Offset 0, Channel: 20325							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3482.22	H	-51.57	-13	-38.57	-63.28	-58.68	7.11
5223.33	H	-33.8	-13	-20.8	-50.36	-40.36	6.56
6964.44	H	-40.71	-13	-27.71	-60.26	-45.07	4.36
3482.22	V	-51.29	-13	-38.29	-62.93	-58.4	7.11
5223.33	V	-44.69	-13	-31.69	-61.21	-51.25	6.56
6964.44	V	-43.02	-13	-30.02	-63.13	-47.38	4.36

Note: EIRP = S.G Power value + Correction factor.

Mode							
LTE Band 4, 16QAM, CB:20 MHz, 1 RB Offset 0, Channel: 20050							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3455.66	H	-52.16	-13	-39.16	-63.54	-59.34	7.18
5183.49	H	-33.76	-13	-20.76	-50.36	-40.29	6.53
6911.32	H	-42.2	-13	-29.2	-61.53	-46.75	4.55
3455.66	V	-51.89	-13	-38.89	-63.24	-59.07	7.18
5183.49	V	-44.73	-13	-31.73	-61.26	-51.26	6.53
6911.32	V	-42.75	-13	-29.75	-62.46	-47.3	4.55

Mode							
LTE Band 4, 16QAM, CB:20 MHz, 1 RB Offset 0, Channel: 20175							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3480.66	H	-51.54	-13	-38.54	-63.23	-58.65	7.11
5220.99	H	-33.09	-13	-20.09	-49.65	-39.65	6.56
6961.32	H	-40.82	-13	-27.82	-60.36	-45.19	4.37
3480.66	V	-51.5	-13	-38.5	-63.12	-58.61	7.11
5220.99	V	-43.76	-13	-30.76	-60.28	-50.32	6.56
6961.32	V	-42.62	-13	-29.62	-62.71	-46.99	4.37

Mode							
LTE Band 4, 16QAM, CB:20 MHz, 1 RB Offset 0, Channel: 20300							
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3474.72	H	-51.23	-13	-38.23	-62.84	-58.36	7.13
5212.08	H	-34.17	-13	-21.17	-50.74	-40.72	6.55
6949.44	H	-40.39	-13	-27.39	-59.87	-44.8	4.41
3474.72	V	-51.12	-13	-38.12	-62.67	-58.25	7.13
5212.08	V	-44.48	-13	-31.48	-61	-51.03	6.55
6949.44	V	-42.85	-13	-29.85	-62.85	-47.26	4.41

Note: EIRP = S.G Power value + Correction factor.

3.3 Conducted Emissions

3.3.1 Limit of Conducted 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.

3.3.2 Test Procedures

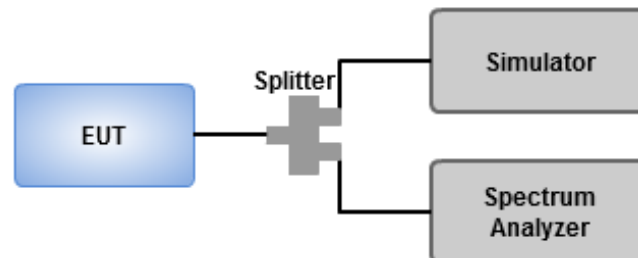
1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30 MHz ~ 20 GHz.
3. Emission below 1GHz
Set RBW = 100 kHz, VBW = 300 kHz, detector = Peak, sweep time = auto.

Emission above 1GHz

Set RBW = 1MHz, VBW = 3MHz, detector = Peak, sweep time = auto.

4. Record the max trace value and capture the test plot of each sub frequency band.

3.3.3 Test Setup



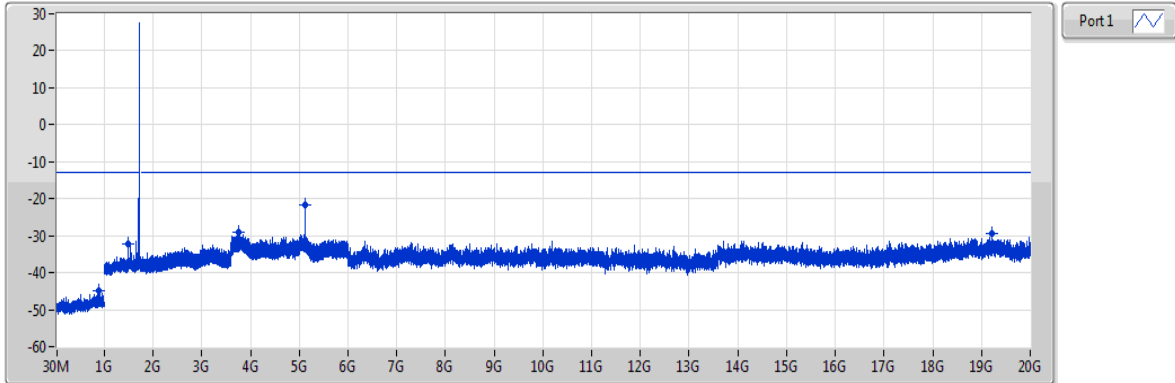
3.3.4 Test Result of Conducted Emissions

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 4	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE-M1_1.4MHz_Nss1,QPSK_1TX	Pass	5G	6G	1M	3M	Peak	5.19619G	-18.00	-13.00	-5.00	1	-	-
LTE-M1_1.4MHz_Nss1,16QAM_1TX	Pass	5G	6G	1M	3M	Peak	5.26141G	-18.79	-13.00	-5.79	1	-	-
LTE-M1_3MHz_Nss1,QPSK_1TX	Pass	5G	6G	1M	3M	Peak	5.19428G	-18.48	-13.00	-5.48	1	-	-
LTE-M1_3MHz_Nss1,16QAM_1TX	Pass	5G	6G	1M	3M	Peak	5.19409G	-18.25	-13.00	-5.25	1	-	-
LTE-M1_5MHz_Nss1,QPSK_1TX	Pass	5G	6G	1M	3M	Peak	5.20428G	-18.66	-13.00	-5.66	1	-	-
LTE-M1_5MHz_Nss1,16QAM_1TX	Pass	5G	6G	1M	3M	Peak	5.264G	-18.43	-13.00	-5.43	1	-	-
LTE-M1_10MHz_Nss1,QPSK_1TX	Pass	5G	6G	1M	3M	Peak	5.19747G	-19.27	-13.00	-6.27	1	-	-
LTE-M1_10MHz_Nss1,16QAM_1TX	Pass	5G	6G	1M	3M	Peak	5.24991G	-18.16	-13.00	-5.16	1	-	-
LTE-M1_15MHz_Nss1,QPSK_1TX	Pass	5G	6G	1M	3M	Peak	5.24191G	-17.86	-13.00	-4.86	1	-	-
LTE-M1_15MHz_Nss1,16QAM_1TX	Pass	5G	6G	1M	3M	Peak	5.152G	-19.44	-13.00	-6.44	1	-	-
LTE-M1_20MHz_Nss1,QPSK_1TX	Pass	5G	6G	1M	3M	Peak	5.23494G	-17.69	-13.00	-4.69	1	-	-
LTE-M1_20MHz_Nss1,16QAM_1TX	Pass	5G	6G	1M	3M	Peak	5.19738G	-17.59	-13.00	-4.59	1	-	-

Band 4_LTE-M1_1.4MHz_Nss1,QPSK_1TX
1710.7MHz

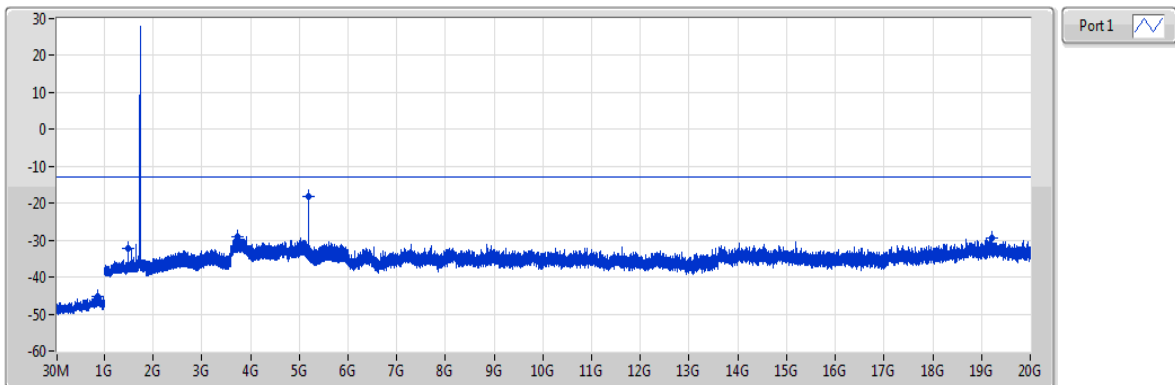
CSE-TX-Port



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	883.6M	-44.95	-13.00	-31.95	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-32.32	-13.00	-19.32	1	-
1.855G	5G	1M	3M	Peak	3.76343G	-29.19	-13.00	-16.19	1	-
5G	6G	1M	3M	Peak	5.13047G	-21.62	-13.00	-8.62	1	-
6G	20G	1M	3M	Peak	19.2076G	-29.53	-13.00	-16.53	1	-

Band 4_LTE-M1_1.4MHz_Nss1,QPSK_1TX
1732.5MHz

CSE-TX-Port

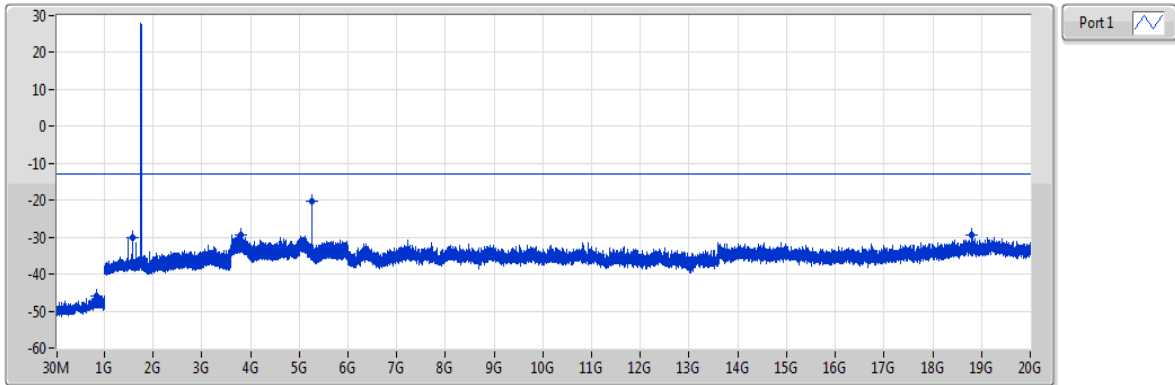


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	861.29M	-45.21	-13.00	-32.21	1	-
1G	1.61G	1M	3M	Peak	1.47794G	-32.28	-13.00	-19.28	1	-
1.855G	5G	1M	3M	Peak	3.72303G	-29.03	-13.00	-16.03	1	-
5G	6G	1M	3M	Peak	5.19619G	-18.00	-13.00	-5.00	1	-
6G	20G	1M	3M	Peak	19.2055G	-29.34	-13.00	-16.34	1	-

Band 4_LTE-M1_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

1754.3MHz

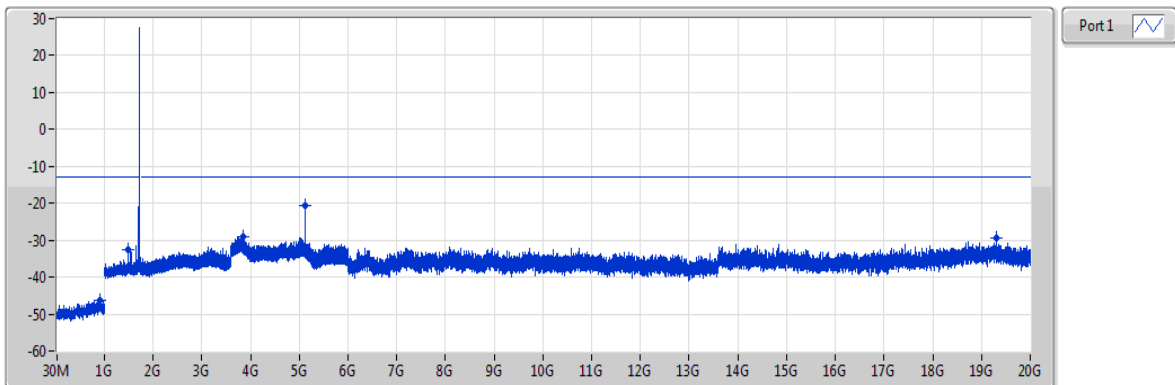


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	838.98M	-45.90	-13.00	-32.90	1	-
1G	1.61G	1M	3M	Peak	1.58042G	-30.19	-13.00	-17.19	1	-
1.855G	5G	1M	3M	Peak	3.79576G	-29.55	-13.00	-16.55	1	-
5G	6G	1M	3M	Peak	5.26147G	-20.42	-13.00	-7.42	1	-
6G	20G	1M	3M	Peak	18.7932G	-29.47	-13.00	-16.47	1	-

Band 4_LTE-M1_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

1710.7MHz

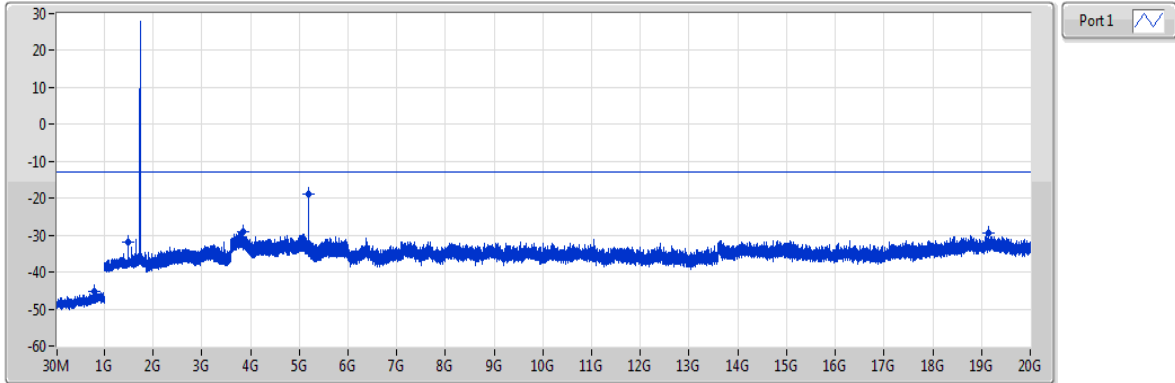


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	905.91M	-46.21	-13.00	-33.21	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-32.44	-13.00	-19.44	1	-
1.855G	5G	1M	3M	Peak	3.83753G	-28.89	-13.00	-15.89	1	-
5G	6G	1M	3M	Peak	5.13084G	-20.76	-13.00	-7.76	1	-
6G	20G	1M	3M	Peak	19.3161G	-29.36	-13.00	-16.36	1	-

Band 4 LTE-M1_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

1732.5MHz

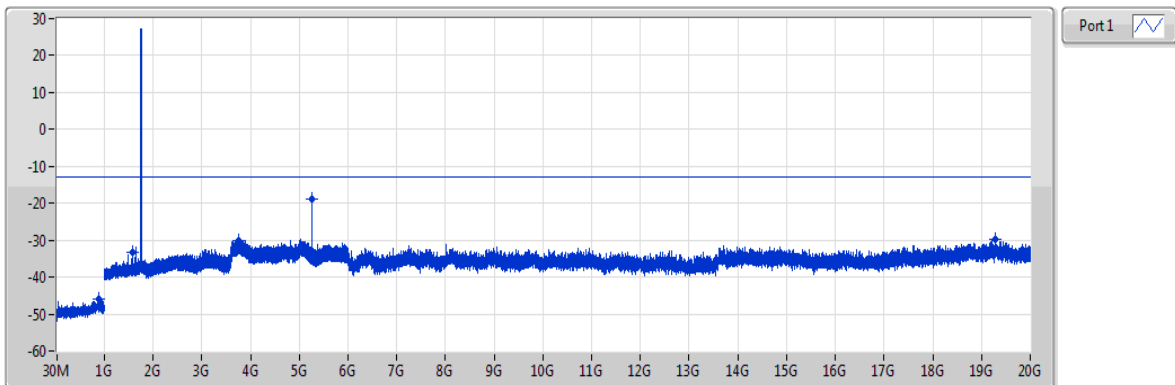


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	805.03M	-45.16	-13.00	-32.16	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-31.90	-13.00	-18.90	1	-
1.855G	5G	1M	3M	Peak	3.84058G	-29.10	-13.00	-16.10	1	-
5G	6G	1M	3M	Peak	5.19597G	-18.87	-13.00	-5.87	1	-
6G	20G	1M	3M	Peak	19.1432G	-29.58	-13.00	-16.58	1	-

Band 4 LTE-M1_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

1754.3MHz

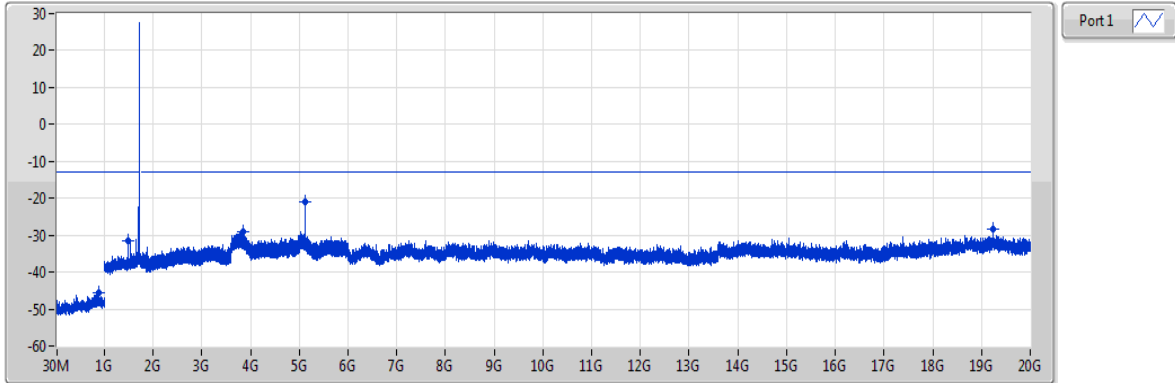


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	896.21M	-45.79	-13.00	-32.79	1	-
1G	1.61G	1M	3M	Peak	1.58011G	-33.18	-13.00	-20.18	1	-
1.855G	5G	1M	3M	Peak	3.75419G	-29.95	-13.00	-16.95	1	-
5G	6G	1M	3M	Peak	5.26141G	-18.79	-13.00	-5.79	1	-
6G	20G	1M	3M	Peak	19.2923G	-29.77	-13.00	-16.77	1	-

Band 4_LTE-M1_3MHz_Nss1,QPSK_1TX

CSE-TX-Port

1711.5MHz

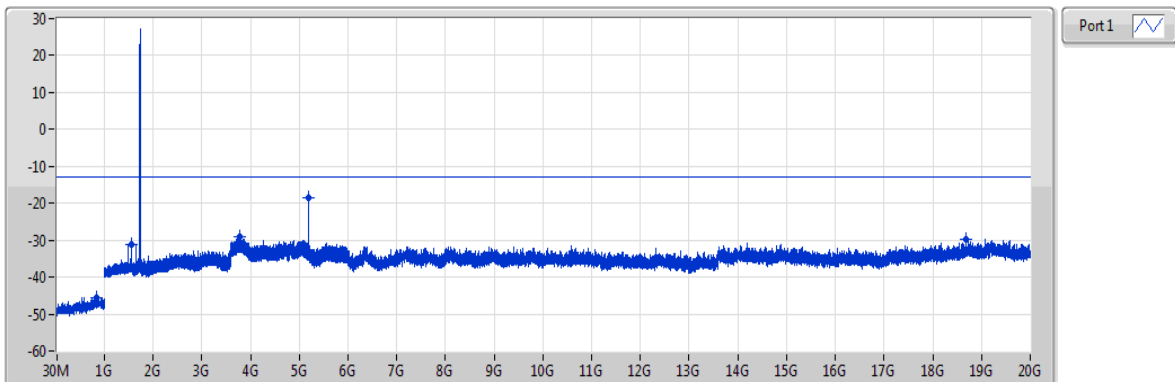


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	880.69M	-45.43	-13.00	-32.43	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-31.65	-13.00	-18.65	1	-
1.855G	5G	1M	3M	Peak	3.84293G	-28.93	-13.00	-15.93	1	-
5G	6G	1M	3M	Peak	5.13163G	-20.96	-13.00	-7.96	1	-
6G	20G	1M	3M	Peak	19.2398G	-28.42	-13.00	-15.42	1	-

Band 4_LTE-M1_3MHz_Nss1,QPSK_1TX

CSE-TX-Port

1732.5MHz

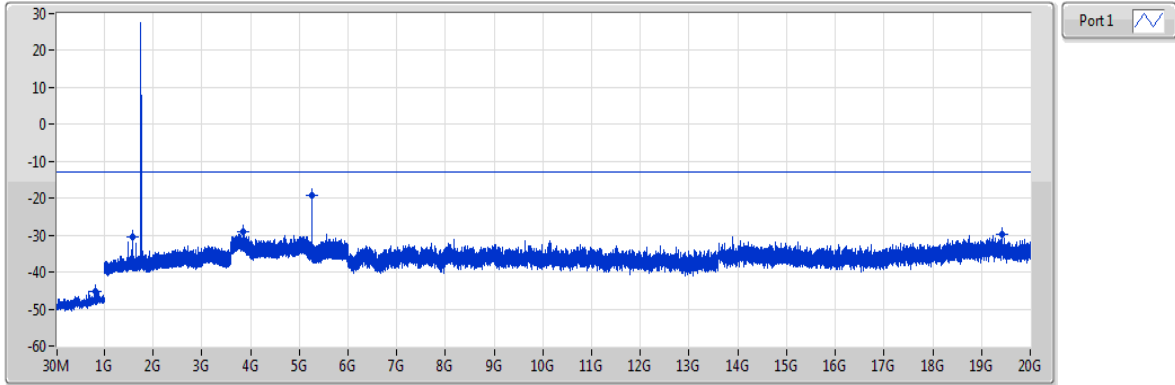


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	847.71M	-45.60	-13.00	-32.60	1	-
1G	1.61G	1M	3M	Peak	1.55785G	-31.14	-13.00	-18.14	1	-
1.855G	5G	1M	3M	Peak	3.78062G	-29.20	-13.00	-16.20	1	-
5G	6G	1M	3M	Peak	5.19428G	-18.48	-13.00	-5.48	1	-
6G	20G	1M	3M	Peak	18.6756G	-29.67	-13.00	-16.67	1	-

Band 4_LTE-M1_3MHz_Nss1,QPSK_1TX

CSE-TX-Port

1753.5MHz

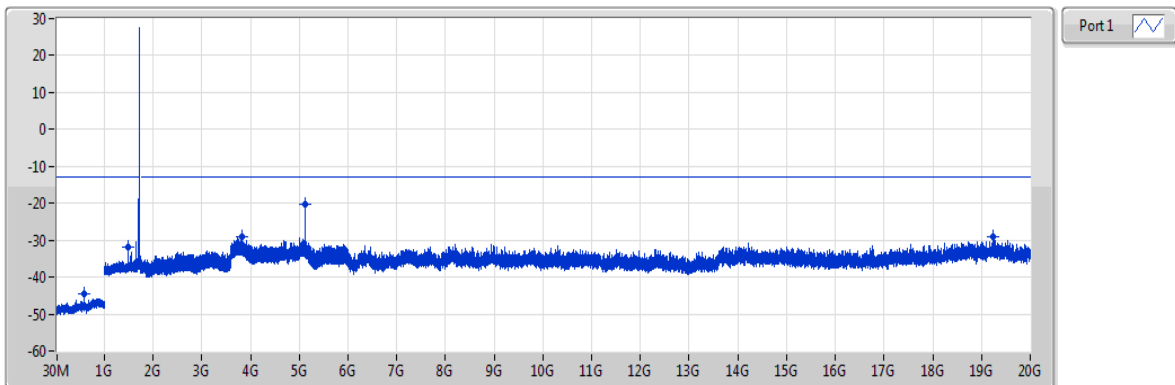


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	819.58M	-45.31	-13.00	-32.31	1	-
1G	1.61G	1M	3M	Peak	1.57889G	-30.53	-13.00	-17.53	1	-
1.855G	5G	1M	3M	Peak	3.83999G	-29.14	-13.00	-16.14	1	-
5G	6G	1M	3M	Peak	5.25747G	-19.13	-13.00	-6.13	1	-
6G	20G	1M	3M	Peak	19.4225G	-29.81	-13.00	-16.81	1	-

Band 4_LTE-M1_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

1711.5MHz

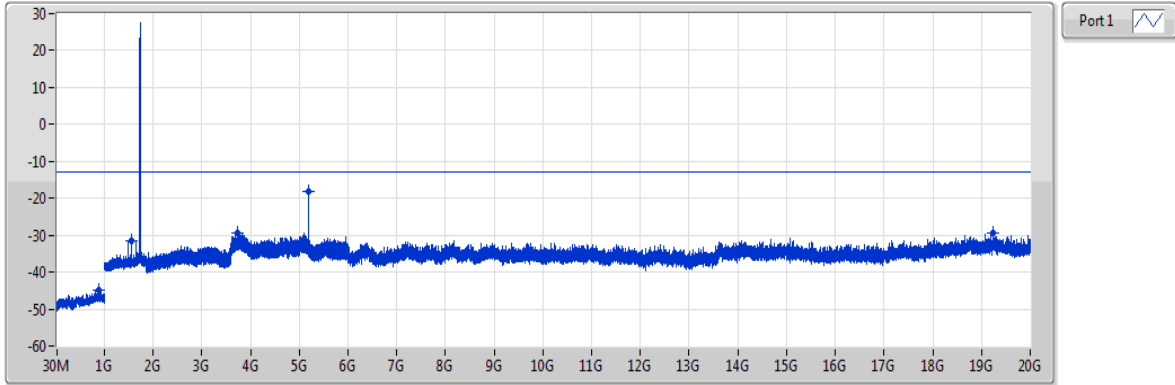


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	577.08M	-44.63	-13.00	-31.63	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-31.74	-13.00	-18.74	1	-
1.855G	5G	1M	3M	Peak	3.83468G	-29.12	-13.00	-16.12	1	-
5G	6G	1M	3M	Peak	5.13128G	-20.23	-13.00	-7.23	1	-
6G	20G	1M	3M	Peak	19.2321G	-29.08	-13.00	-16.08	1	-

Band 4 LTE-M1_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

1732.5MHz

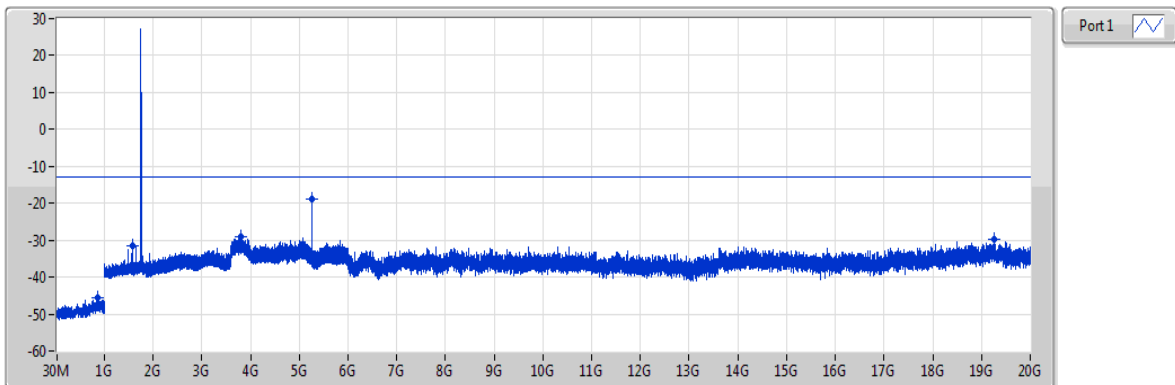


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	885.54M	-44.95	-13.00	-31.95	1	-
1G	1.61G	1M	3M	Peak	1.56517G	-31.63	-13.00	-18.63	1	-
1.855G	5G	1M	3M	Peak	3.73306G	-29.58	-13.00	-16.58	1	-
5G	6G	1M	3M	Peak	5.19409G	-18.25	-13.00	-5.25	1	-
6G	20G	1M	3M	Peak	19.2426G	-29.46	-13.00	-16.46	1	-

Band 4 LTE-M1_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

1753.5MHz

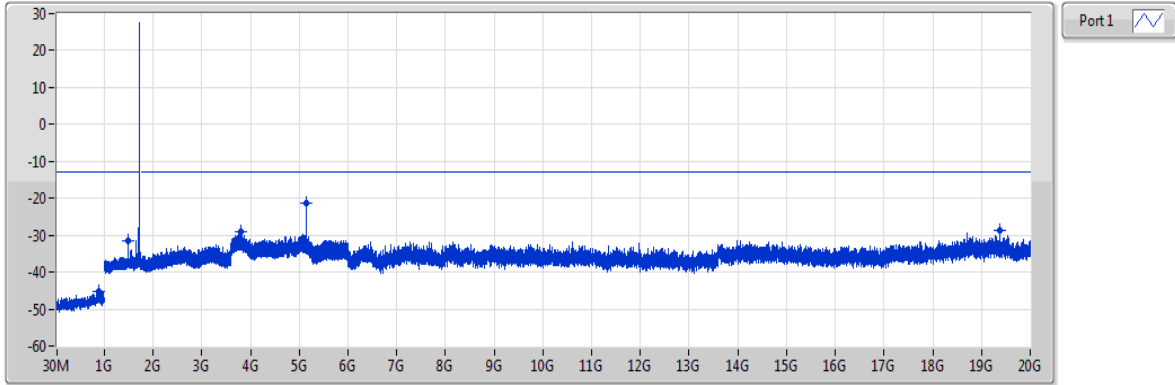


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	870.02M	-45.63	-13.00	-32.63	1	-
1G	1.61G	1M	3M	Peak	1.57859G	-31.42	-13.00	-18.42	1	-
1.855G	5G	1M	3M	Peak	3.79134G	-29.05	-13.00	-16.05	1	-
5G	6G	1M	3M	Peak	5.25706G	-19.00	-13.00	-6.00	1	-
6G	20G	1M	3M	Peak	19.2629G	-29.94	-13.00	-16.94	1	-

Band 4_LTE-M1_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

1712.5MHz

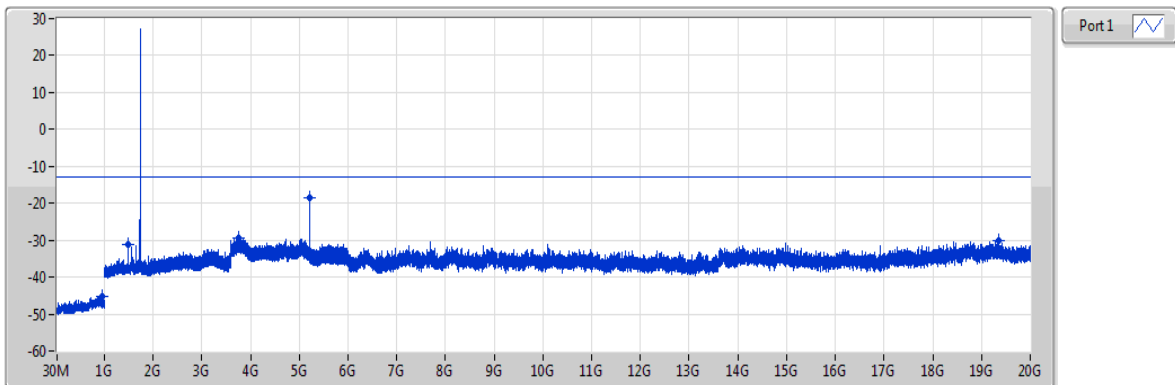


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	892.33M	-45.14	-13.00	-32.14	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-31.66	-13.00	-18.66	1	-
1.855G	5G	1M	3M	Peak	3.79782G	-29.20	-13.00	-16.20	1	-
5G	6G	1M	3M	Peak	5.14422G	-21.32	-13.00	-8.32	1	-
6G	20G	1M	3M	Peak	19.377G	-28.83	-13.00	-15.83	1	-

Band 4_LTE-M1_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

1732.5MHz

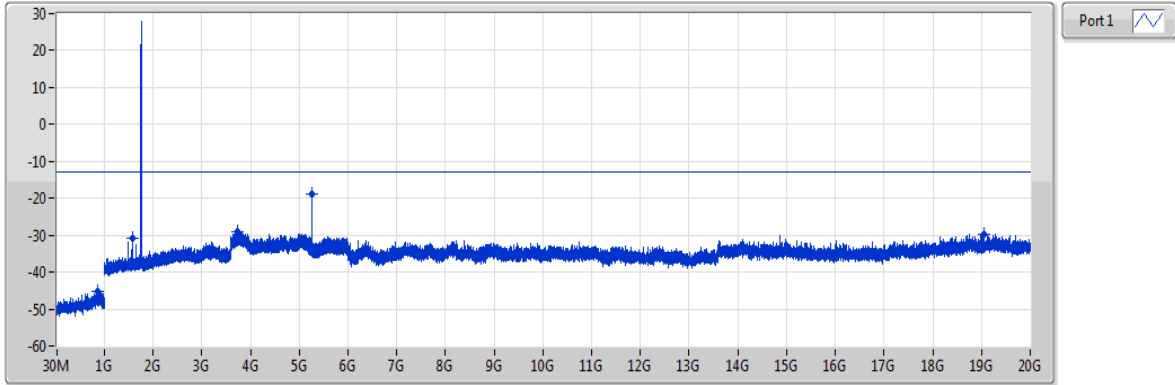


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	963.14M	-45.09	-13.00	-32.09	1	-
1G	1.61G	1M	3M	Peak	1.47794G	-31.20	-13.00	-18.20	1	-
1.855G	5G	1M	3M	Peak	3.74908G	-29.41	-13.00	-16.41	1	-
5G	6G	1M	3M	Peak	5.20428G	-18.66	-13.00	-5.66	1	-
6G	20G	1M	3M	Peak	19.3427G	-30.07	-13.00	-17.07	1	-

Band 4_LTE-M1_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

1752.5MHz

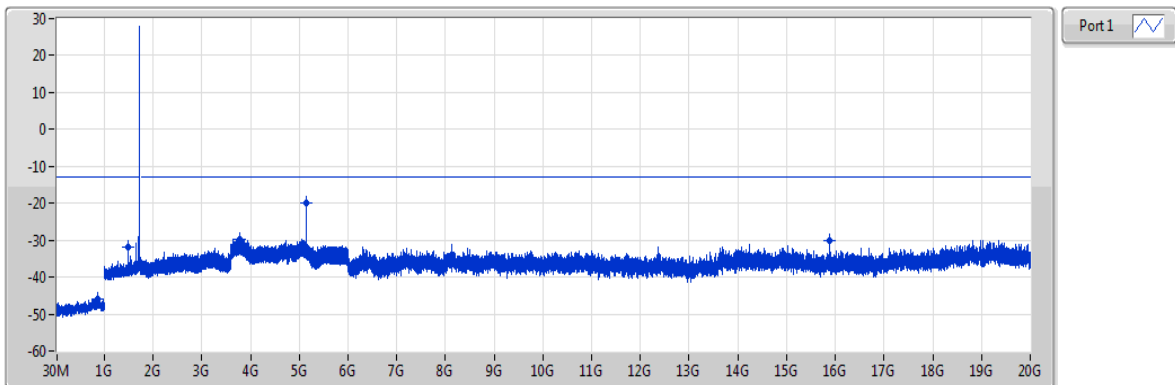


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	856.44M	-45.10	-13.00	-32.10	1	-
1G	1.61G	1M	3M	Peak	1.58103G	-30.81	-13.00	-17.81	1	-
1.855G	5G	1M	3M	Peak	3.73325G	-29.12	-13.00	-16.12	1	-
5G	6G	1M	3M	Peak	5.26403G	-18.91	-13.00	-5.91	1	-
6G	20G	1M	3M	Peak	19.0571G	-29.65	-13.00	-16.65	1	-

Band 4_LTE-M1_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

1712.5MHz

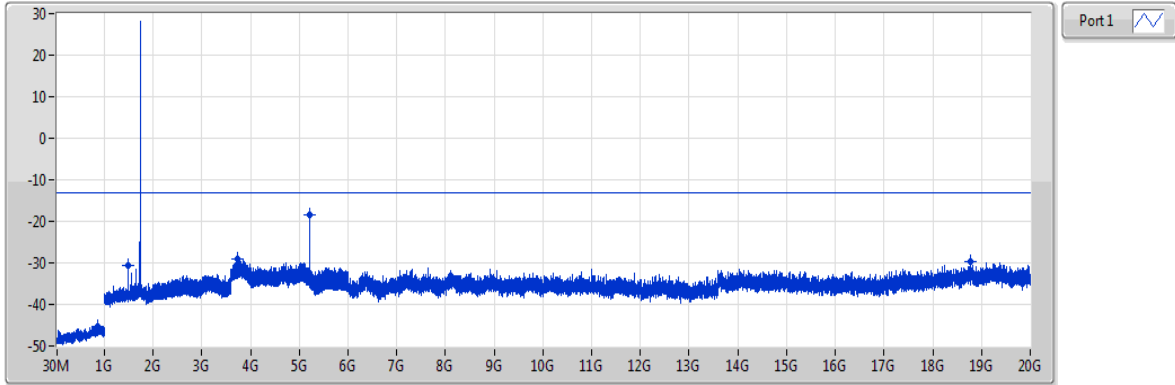


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	857.41M	-45.89	-13.00	-32.89	1	-
1G	1.61G	1M	3M	Peak	1.47855G	-31.97	-13.00	-18.97	1	-
1.855G	5G	1M	3M	Peak	3.7762G	-29.59	-13.00	-16.59	1	-
5G	6G	1M	3M	Peak	5.14403G	-19.82	-13.00	-6.82	1	-
6G	20G	1M	3M	Peak	15.8875G	-29.99	-13.00	-16.99	1	-

Band 4_LTE-M1_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

1732.5MHz

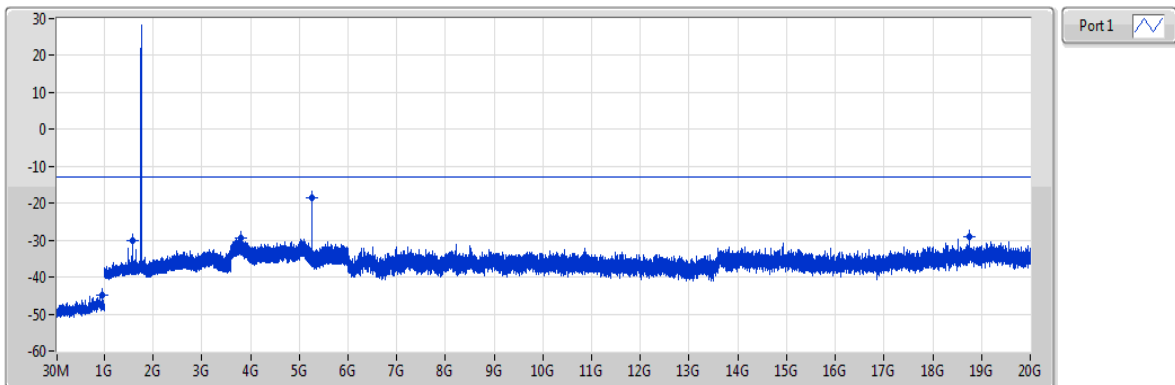


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	853.53M	-45.24	-13.00	-32.24	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-30.64	-13.00	-17.64	1	-
1.855G	5G	1M	3M	Peak	3.73679G	-29.07	-13.00	-16.07	1	-
5G	6G	1M	3M	Peak	5.20366G	-18.45	-13.00	-5.45	1	-
6G	20G	1M	3M	Peak	18.7666G	-29.83	-13.00	-16.83	1	-

Band 4_LTE-M1_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

1752.5MHz

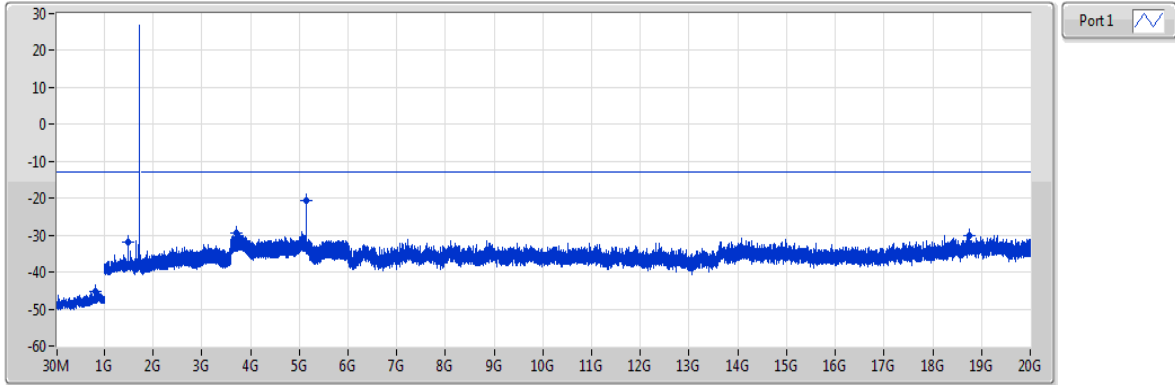


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	950.53M	-44.95	-13.00	-31.95	1	-
1G	1.61G	1M	3M	Peak	1.58103G	-30.12	-13.00	-17.12	1	-
1.855G	5G	1M	3M	Peak	3.7933G	-29.30	-13.00	-16.30	1	-
5G	6G	1M	3M	Peak	5.264G	-18.43	-13.00	-5.43	1	-
6G	20G	1M	3M	Peak	18.7484G	-29.08	-13.00	-16.08	1	-

Band 4 LTE-M1_10MHz_Nss1,QPSK_1TX

CSE-TX-Port

1715MHz

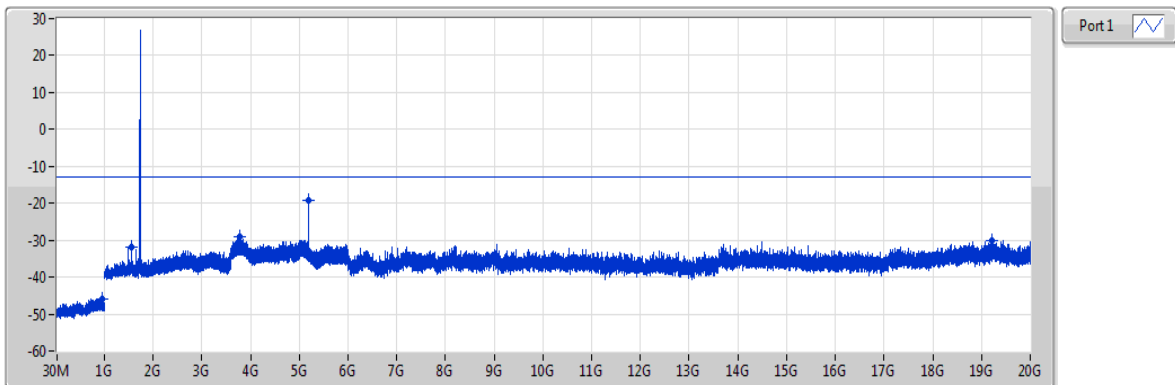


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	822.49M	-45.11	-13.00	-32.11	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-31.96	-13.00	-18.96	1	-
1.855G	5G	1M	3M	Peak	3.70112G	-29.46	-13.00	-16.46	1	-
5G	6G	1M	3M	Peak	5.14469G	-20.73	-13.00	-7.73	1	-
6G	20G	1M	3M	Peak	18.7582G	-29.99	-13.00	-16.99	1	-

Band 4 LTE-M1_10MHz_Nss1,QPSK_1TX

CSE-TX-Port

1732.5MHz

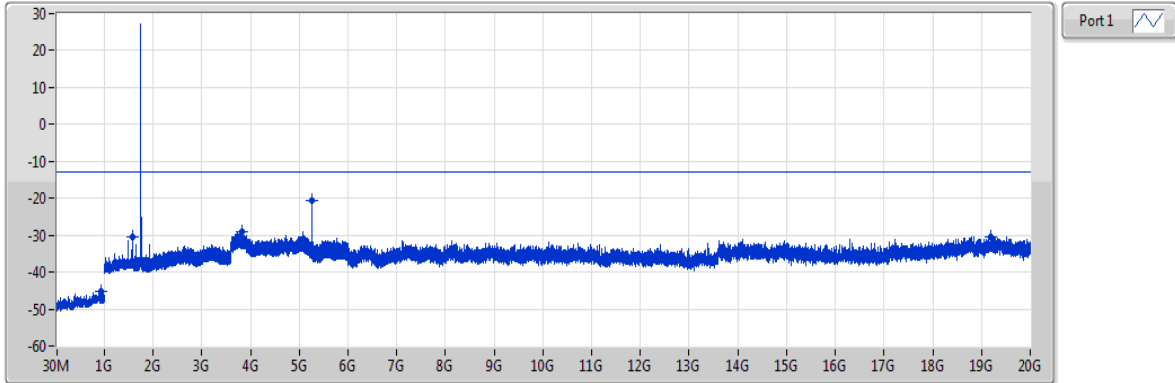


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	948.59M	-45.80	-13.00	-32.80	1	-
1G	1.61G	1M	3M	Peak	1.55876G	-31.92	-13.00	-18.92	1	-
1.855G	5G	1M	3M	Peak	3.77099G	-29.02	-13.00	-16.02	1	-
5G	6G	1M	3M	Peak	5.19747G	-19.27	-13.00	-6.27	1	-
6G	20G	1M	3M	Peak	19.2097G	-30.07	-13.00	-17.07	1	-

Band 4_LTE-M1_10MHz_Nss1,QPSK_1TX

CSE-TX-Port

1750MHz

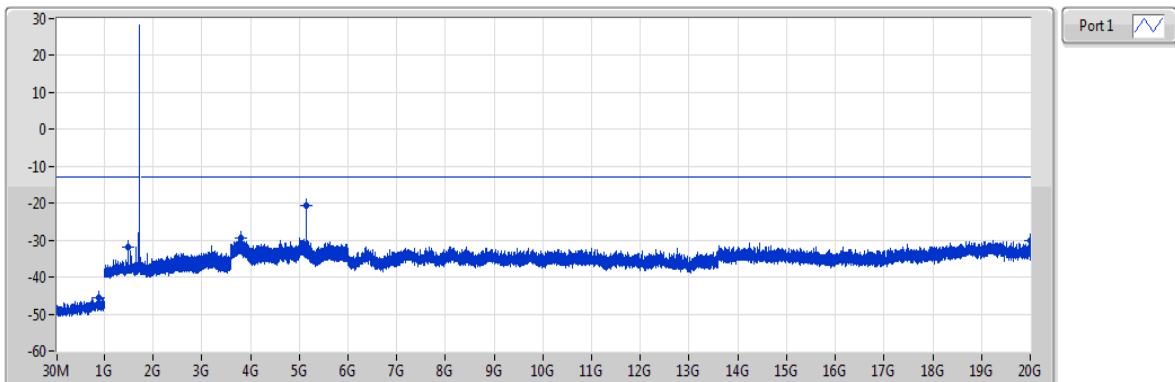


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	928.22M	-45.33	-13.00	-32.33	1	-
1G	1.61G	1M	3M	Peak	1.57645G	-30.64	-13.00	-17.64	1	-
1.855G	5G	1M	3M	Peak	3.82947G	-29.22	-13.00	-16.22	1	-
5G	6G	1M	3M	Peak	5.24931G	-20.69	-13.00	-7.69	1	-
6G	20G	1M	3M	Peak	19.1964G	-30.37	-13.00	-17.37	1	-

Band 4_LTE-M1_10MHz_Nss1,16QAM_1TX

CSE-TX-Port

1715MHz

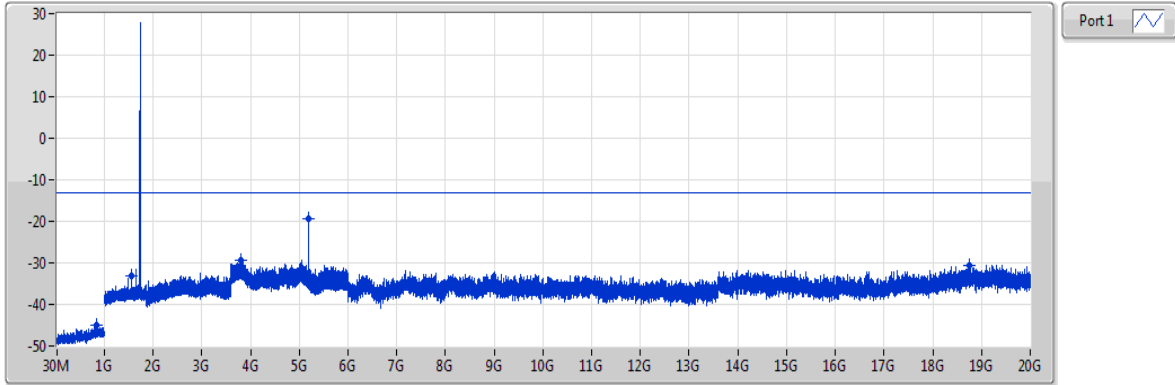


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	874.87M	-45.53	-13.00	-32.53	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-31.86	-13.00	-18.86	1	-
1.855G	5G	1M	3M	Peak	3.79655G	-29.51	-13.00	-16.51	1	-
5G	6G	1M	3M	Peak	5.14509G	-20.61	-13.00	-7.61	1	-
6G	20G	1M	3M	Peak	19.9888G	-30.21	-13.00	-17.21	1	-

Band 4_LTE-M1_10MHz_Nss1,16QAM_1TX

CSE-TX-Port

1732.5MHz

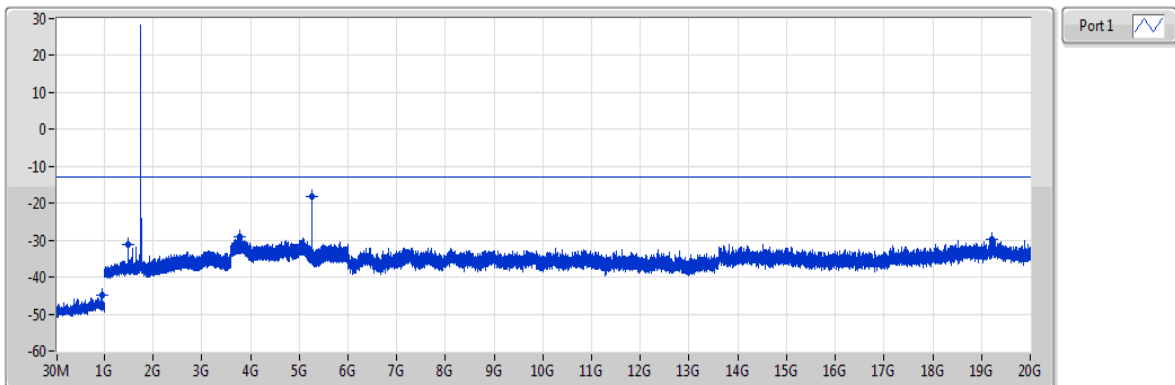


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	840.92M	-44.87	-13.00	-31.87	1	-
1G	1.61G	1M	3M	Peak	1.55876G	-33.28	-13.00	-20.28	1	-
1.855G	5G	1M	3M	Peak	3.7934G	-29.46	-13.00	-16.46	1	-
5G	6G	1M	3M	Peak	5.19756G	-19.30	-13.00	-6.30	1	-
6G	20G	1M	3M	Peak	18.754G	-30.56	-13.00	-17.56	1	-

Band 4_LTE-M1_10MHz_Nss1,16QAM_1TX

CSE-TX-Port

1750MHz

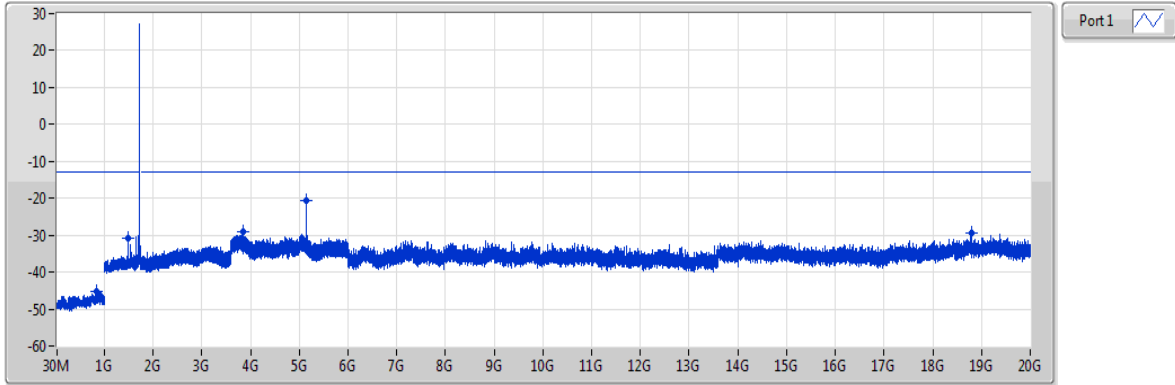


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	967.02M	-44.79	-13.00	-31.79	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-31.12	-13.00	-18.12	1	-
1.855G	5G	1M	3M	Peak	3.77257G	-29.13	-13.00	-16.13	1	-
5G	6G	1M	3M	Peak	5.24991G	-18.16	-13.00	-5.16	1	-
6G	20G	1M	3M	Peak	19.2034G	-29.75	-13.00	-16.75	1	-

Band 4 LTE-M1_15MHz_Nss1,QPSK_1TX

CSE-TX-Port

1717.5MHz

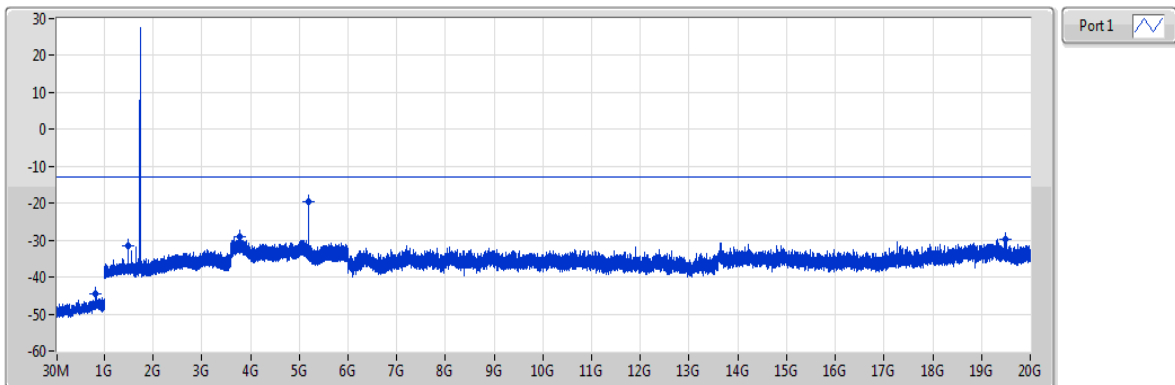


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	850.62M	-45.15	-13.00	-32.15	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-30.81	-13.00	-17.81	1	-
1.855G	5G	1M	3M	Peak	3.85473G	-28.95	-13.00	-15.95	1	-
5G	6G	1M	3M	Peak	5.15209G	-20.49	-13.00	-7.49	1	-
6G	20G	1M	3M	Peak	18.7918G	-29.24	-13.00	-16.24	1	-

Band 4 LTE-M1_15MHz_Nss1,QPSK_1TX

CSE-TX-Port

1732.5MHz

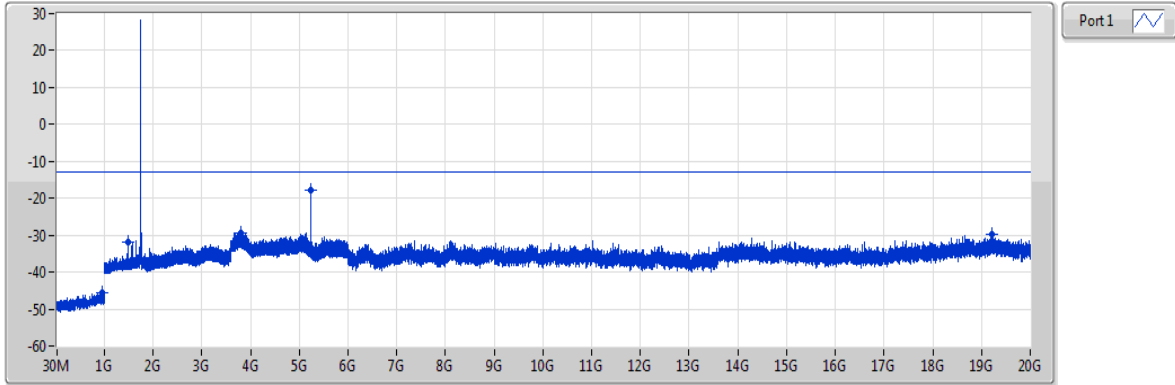


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	820.55M	-44.55	-13.00	-31.55	1	-
1G	1.61G	1M	3M	Peak	1.47794G	-31.50	-13.00	-18.50	1	-
1.855G	5G	1M	3M	Peak	3.78033G	-29.16	-13.00	-16.16	1	-
5G	6G	1M	3M	Peak	5.19678G	-19.53	-13.00	-6.53	1	-
6G	20G	1M	3M	Peak	19.4827G	-29.59	-13.00	-16.59	1	-

Band 4_LTE-M1_15MHz_Nss1,QPSK_1TX

CSE-TX-Port

1747.5MHz

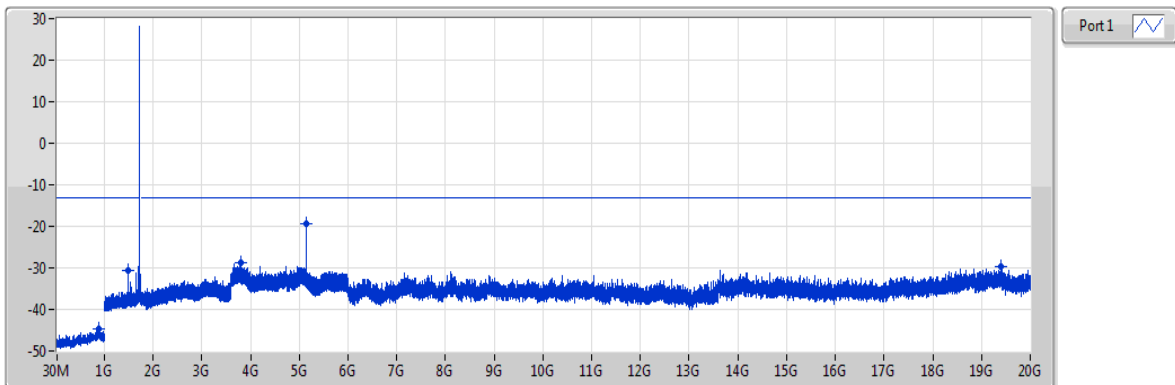


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	945.68M	-45.66	-13.00	-32.66	1	-
1G	1.61G	1M	3M	Peak	1.47794G	-31.78	-13.00	-18.78	1	-
1.855G	5G	1M	3M	Peak	3.79085G	-29.26	-13.00	-16.26	1	-
5G	6G	1M	3M	Peak	5.24191G	-17.86	-13.00	-4.86	1	-
6G	20G	1M	3M	Peak	19.202G	-29.74	-13.00	-16.74	1	-

Band 4_LTE-M1_15MHz_Nss1,16QAM_1TX

CSE-TX-Port

1717.5MHz

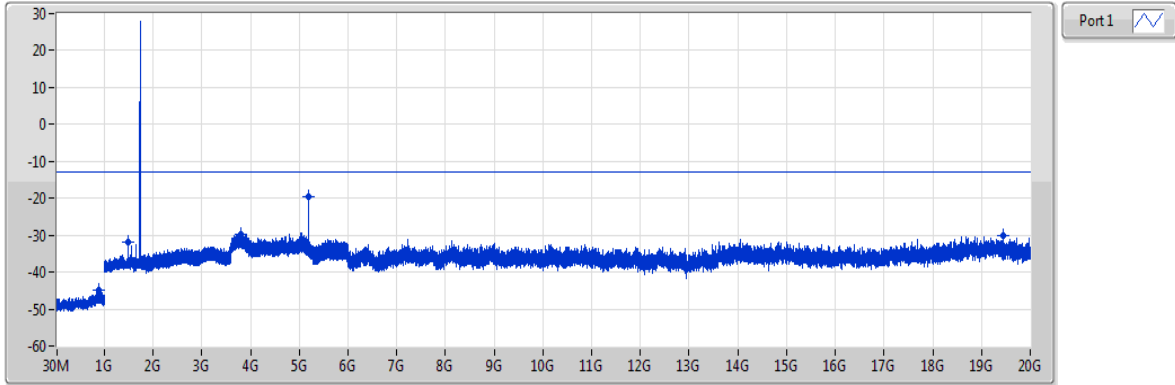


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	893.3M	-44.75	-13.00	-31.75	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-30.56	-13.00	-17.56	1	-
1.855G	5G	1M	3M	Peak	3.79684G	-28.77	-13.00	-15.77	1	-
5G	6G	1M	3M	Peak	5.152G	-19.44	-13.00	-6.44	1	-
6G	20G	1M	3M	Peak	19.4029G	-29.57	-13.00	-16.57	1	-

Band 4_LTE-M1_15MHz_Nss1,16QAM_1TX

CSE-TX-Port

1732.5MHz

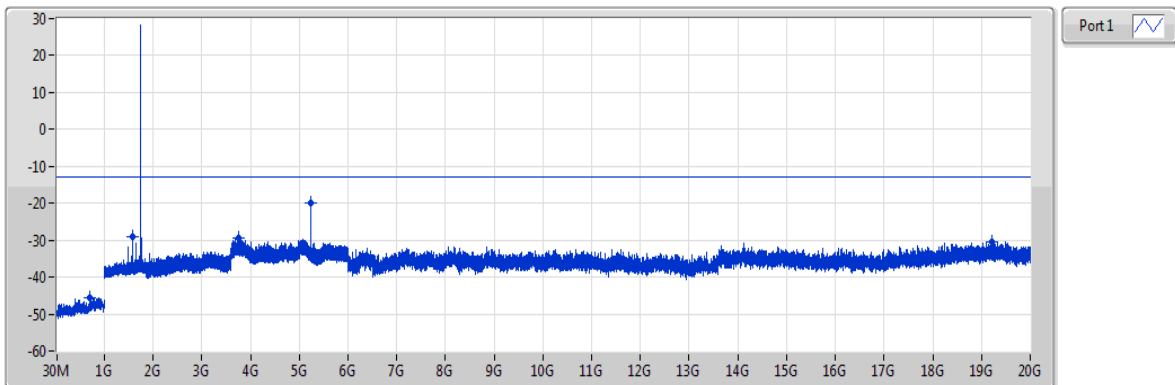


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	885.54M	-44.96	-13.00	-31.96	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-31.79	-13.00	-18.79	1	-
1.855G	5G	1M	3M	Peak	3.79841G	-29.70	-13.00	-16.70	1	-
5G	6G	1M	3M	Peak	5.19663G	-19.44	-13.00	-6.44	1	-
6G	20G	1M	3M	Peak	19.4386G	-29.97	-13.00	-16.97	1	-

Band 4_LTE-M1_15MHz_Nss1,16QAM_1TX

CSE-TX-Port

1747.5MHz

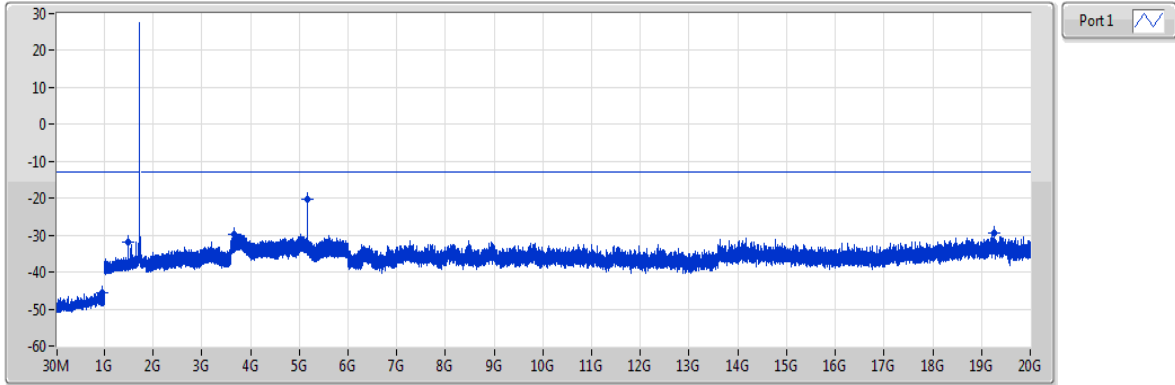


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	701.24M	-45.54	-13.00	-32.54	1	-
1G	1.61G	1M	3M	Peak	1.5734G	-28.91	-13.00	-15.91	1	-
1.855G	5G	1M	3M	Peak	3.74898G	-29.48	-13.00	-16.48	1	-
5G	6G	1M	3M	Peak	5.24228G	-19.92	-13.00	-6.92	1	-
6G	20G	1M	3M	Peak	19.2153G	-30.59	-13.00	-17.59	1	-

Band 4_LTE-M1_20MHz_Nss1,QPSK_1TX

CSE-TX-Port

1720MHz

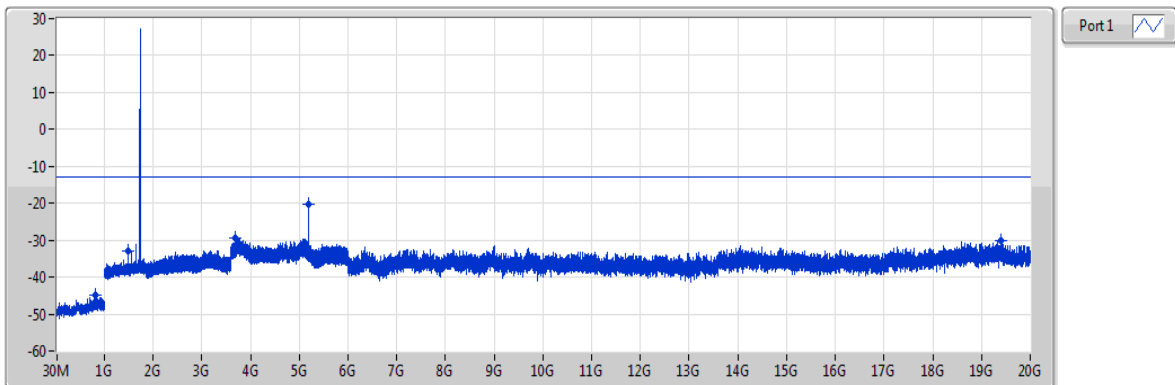


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	949.56M	-45.68	-13.00	-32.68	1	-
1G	1.61G	1M	3M	Peak	1.47794G	-31.74	-13.00	-18.74	1	-
1.855G	5G	1M	3M	Peak	3.67016G	-29.83	-13.00	-16.83	1	-
5G	6G	1M	3M	Peak	5.15959G	-20.22	-13.00	-7.22	1	-
6G	20G	1M	3M	Peak	19.2517G	-29.58	-13.00	-16.58	1	-

Band 4_LTE-M1_20MHz_Nss1,QPSK_1TX

CSE-TX-Port

1732.5MHz

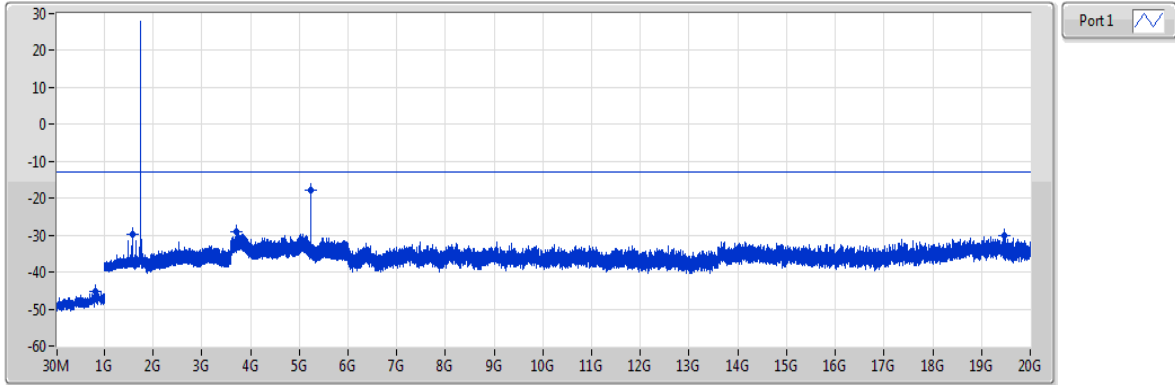


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	823.46M	-44.97	-13.00	-31.97	1	-
1G	1.61G	1M	3M	Peak	1.47855G	-32.88	-13.00	-19.88	1	-
1.855G	5G	1M	3M	Peak	3.67487G	-29.48	-13.00	-16.48	1	-
5G	6G	1M	3M	Peak	5.19759G	-20.42	-13.00	-7.42	1	-
6G	20G	1M	3M	Peak	19.4001G	-29.99	-13.00	-16.99	1	-

Band 4_LTE-M1_20MHz_Nss1,QPSK_1TX

CSE-TX-Port

1745MHz

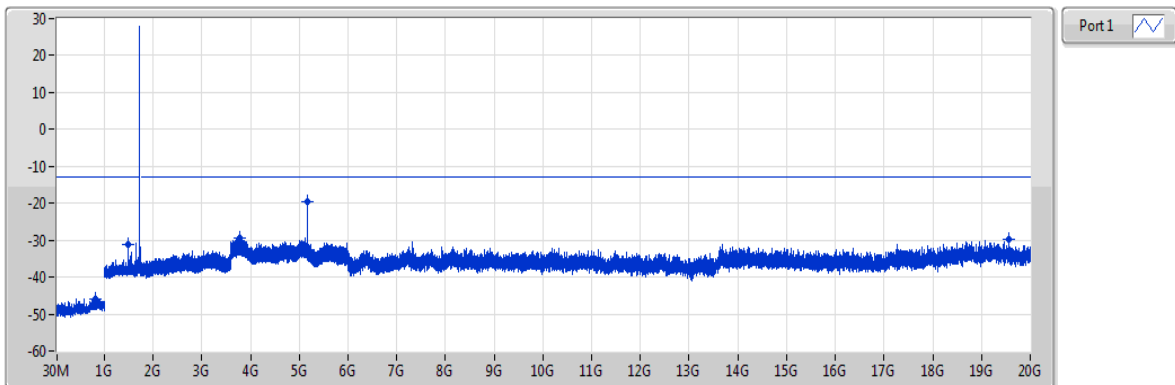


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	811.82M	-45.18	-13.00	-32.18	1	-
1G	1.61G	1M	3M	Peak	1.57127G	-29.85	-13.00	-16.85	1	-
1.855G	5G	1M	3M	Peak	3.70917G	-28.90	-13.00	-15.90	1	-
5G	6G	1M	3M	Peak	5.23494G	-17.69	-13.00	-4.69	1	-
6G	20G	1M	3M	Peak	19.4624G	-30.12	-13.00	-17.12	1	-

Band 4_LTE-M1_20MHz_Nss1,16QAM_1TX

CSE-TX-Port

1720MHz

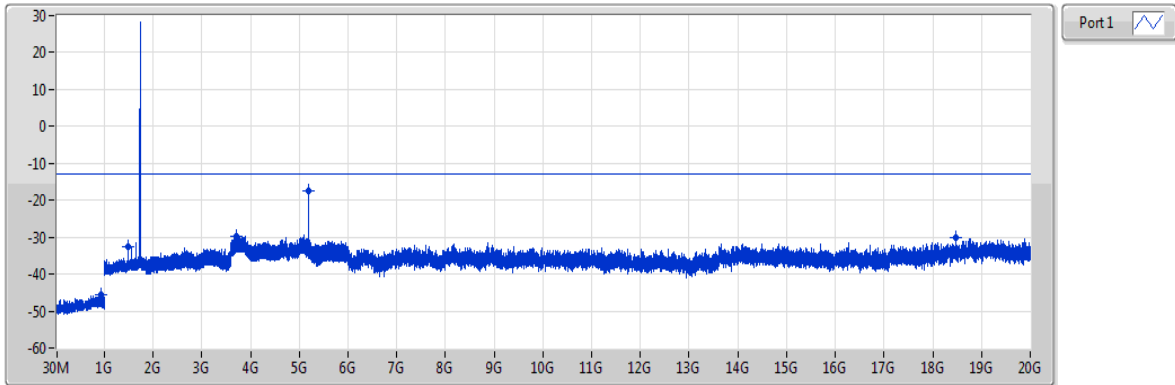


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	815.7M	-45.81	-13.00	-32.81	1	-
1G	1.61G	1M	3M	Peak	1.47824G	-31.13	-13.00	-18.13	1	-
1.855G	5G	1M	3M	Peak	3.78937G	-29.52	-13.00	-16.52	1	-
5G	6G	1M	3M	Peak	5.16G	-19.74	-13.00	-6.74	1	-
6G	20G	1M	3M	Peak	19.5569G	-29.89	-13.00	-16.89	1	-

Band 4_LTE-M1_20MHz_Nss1,16QAM_1TX

CSE-TX-Port

1732.5MHz

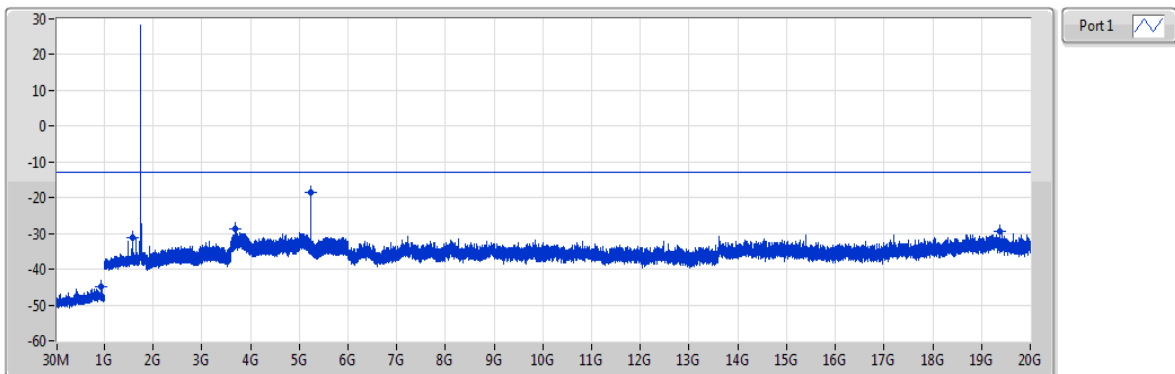


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	929.19M	-45.72	-13.00	-32.72	1	-
1G	1.61G	1M	3M	Peak	1.47794G	-32.60	-13.00	-19.60	1	-
1.855G	5G	1M	3M	Peak	3.71271G	-29.61	-13.00	-16.61	1	-
5G	6G	1M	3M	Peak	5.19738G	-17.59	-13.00	-4.59	1	-
6G	20G	1M	3M	Peak	18.4747G	-30.28	-13.00	-17.28	1	-

Band 4_LTE-M1_20MHz_Nss1,16QAM_1TX

CSE-TX-Port

1745MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
30M	1G	100k	300k	Peak	929.19M	-44.72	-13.00	-31.72	1	-
1G	1.61G	1M	3M	Peak	1.57127G	-31.00	-13.00	-18.00	1	-
1.855G	5G	1M	3M	Peak	3.69306G	-28.87	-13.00	-15.87	1	-
5G	6G	1M	3M	Peak	5.23456G	-18.57	-13.00	-5.57	1	-
6G	20G	1M	3M	Peak	19.3637G	-29.33	-13.00	-16.33	1	-

3.4 Band Edge

3.4.1 Limit of 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.

3.4.2 Test Procedures

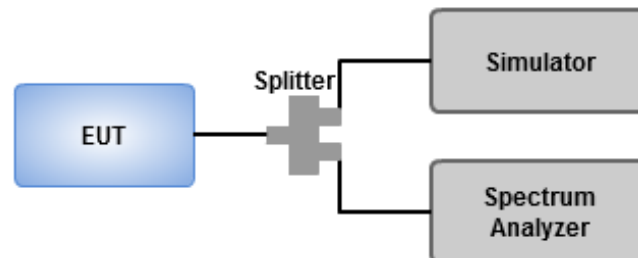
Out of band emission

1. Lowest, middle and highest operating channels are tested for this item.
2. Set RBW = 1 MHz, VBW = 3 MHz, detector = RMS, sweep time = auto.
3. 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.

3.4.3 Test Setup



3.4.4 Test Result of Band Edge

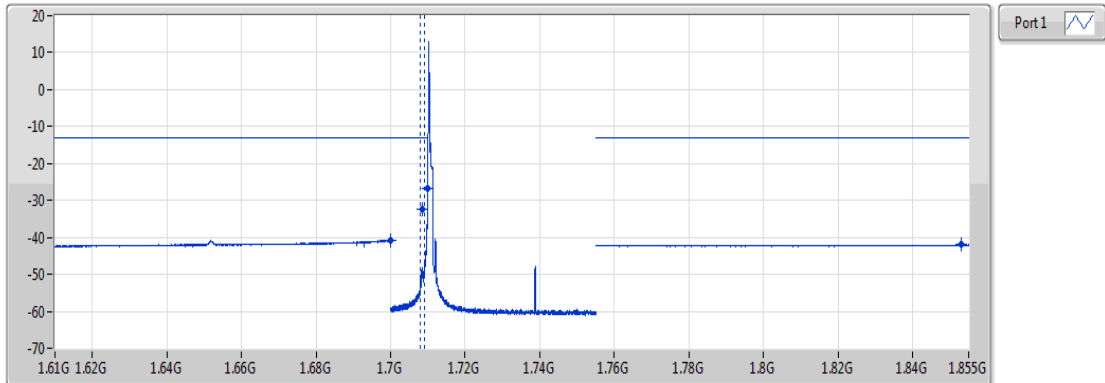
Summary

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)
Band 4	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE-M1_1.4MHz_Nss1,QPSK_1TX	Pass	1.755G	1.756G	15k	47k	RMS	1.755G	-26.11	-13.00	-13.11	1	-	-
LTE-M1_1.4MHz_Nss1,16QAM_1TX	Pass	1.709G	1.71G	15k	47k	RMS	1.71G	-28.67	-13.00	-15.67	1	-	-
LTE-M1_3MHz_Nss1,QPSK_1TX	Pass	1.756G	1.765G	15k	47k	RMS	1.7565G	-33.16	-13.00	-20.16	1	MBW 1M	-
LTE-M1_3MHz_Nss1,16QAM_1TX	Pass	1.7G	1.709G	15k	47k	RMS	1.7085G	-34.30	-13.00	-21.30	1	MBW 1M	-
LTE-M1_5MHz_Nss1,QPSK_1TX	Pass	1.756G	1.765G	15k	47k	RMS	1.7565G	-31.00	-13.00	-18.00	1	MBW 1M	-
LTE-M1_5MHz_Nss1,16QAM_1TX	Pass	1.756G	1.765G	15k	47k	RMS	1.7565G	-32.25	-13.00	-19.25	1	MBW 1M	-
LTE-M1_10MHz_Nss1,QPSK_1TX	Pass	1.756G	1.765G	15k	47k	RMS	1.7565G	-33.87	-13.00	-20.87	1	MBW 1M	-
LTE-M1_10MHz_Nss1,16QAM_1TX	Pass	1.756G	1.765G	15k	47k	RMS	1.7565G	-33.98	-13.00	-20.98	1	MBW 1M	-
LTE-M1_15MHz_Nss1,QPSK_1TX	Pass	1.756G	1.765G	15k	47k	RMS	1.7565G	-34.56	-13.00	-21.56	1	MBW 1M	-
LTE-M1_15MHz_Nss1,16QAM_1TX	Pass	1.7G	1.709G	15k	47k	RMS	1.7085G	-35.68	-13.00	-22.68	1	MBW 1M	-
LTE-M1_20MHz_Nss1,QPSK_1TX	Pass	1.756G	1.765G	15k	47k	RMS	1.7565G	-36.90	-13.00	-23.90	1	MBW 1M	-
LTE-M1_20MHz_Nss1,16QAM_1TX	Pass	1.7G	1.709G	15k	47k	RMS	1.7085G	-37.64	-13.00	-24.64	1	MBW 1M	-

Band 4 LTE-M1_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

1710.7MHz_QPSK_RB 1,#RB 0,NB 0

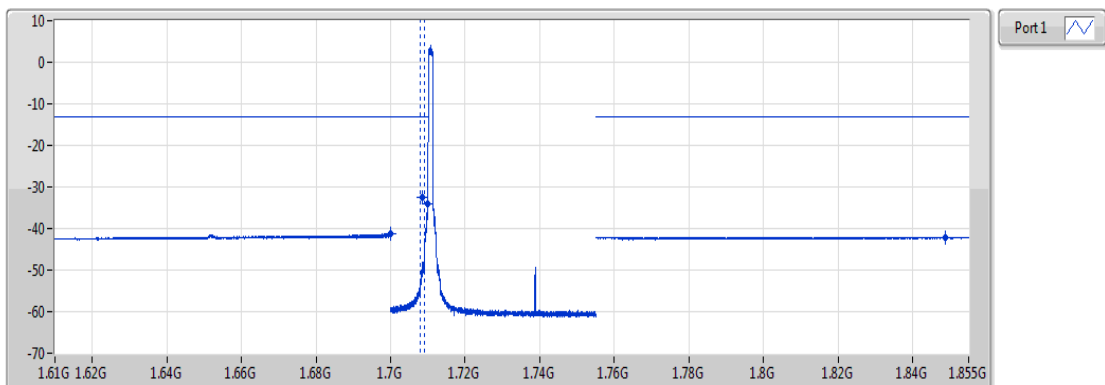


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.7G	-40.67	-13.00	-27.67	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-32.35	-13.00	-19.35	1	MBW1M
1.709G	1.71G	15k	47k	RMS	1.71G	-26.76	-13.00	-13.76	1	-
1.755G	1.855G	1M	3M	RMS	1.85305G	-42.03	-13.00	-29.03	1	-

Band 4 LTE-M1_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

1710.7MHz_QPSK_RB 6,#RB 0,NB 0

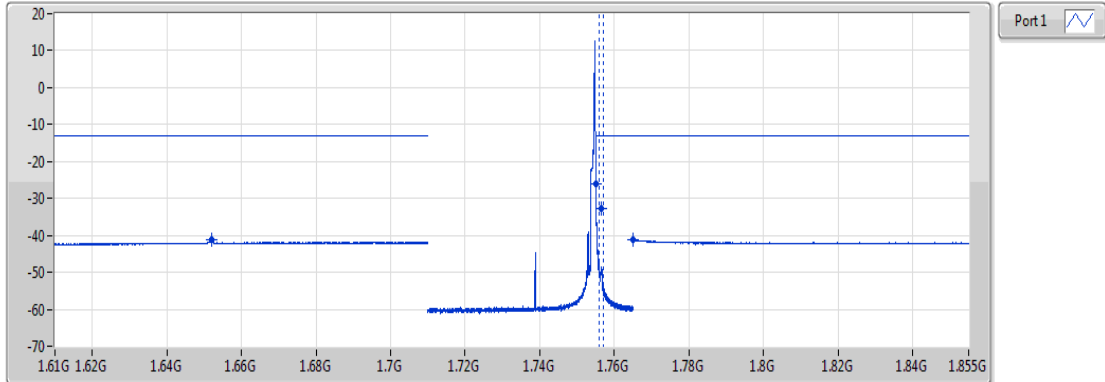


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69991G	-41.22	-13.00	-28.22	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-32.40	-13.00	-19.40	1	MBW1M
1.709G	1.71G	15k	47k	RMS	1.71G	-34.19	-13.00	-21.19	1	-
1.755G	1.855G	1M	3M	RMS	1.8488G	-42.08	-13.00	-29.08	1	-

Band 4_LTE-M1_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

1754.3MHz_QPSK_RB 1,#RB 5,NB 0

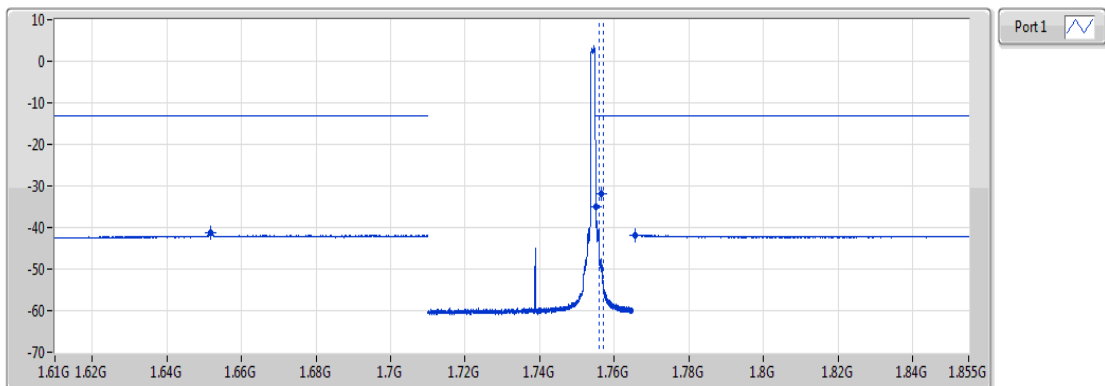


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.6519G	-41.26	-13.00	-28.26	1	-
1.755G	1.756G	15k	47k	RMS	1.755G	-26.11	-13.00	-13.11	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-32.74	-13.00	-19.74	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76514G	-41.20	-13.00	-28.20	1	-

Band 4_LTE-M1_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Port

1754.3MHz_QPSK_RB 6,#RB 0,NB 0

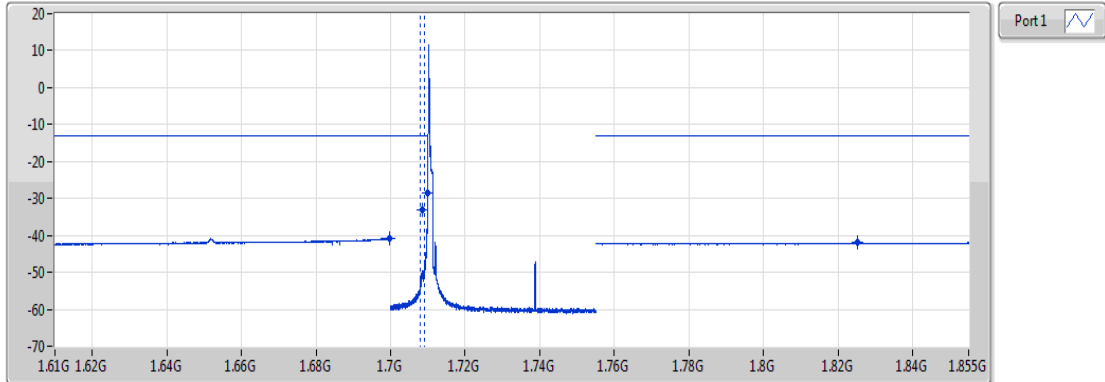


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.65185G	-41.36	-13.00	-28.36	1	-
1.755G	1.756G	15k	47k	RMS	1.755G	-35.08	-13.00	-22.08	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-31.75	-13.00	-18.75	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76554G	-41.74	-13.00	-28.74	1	-

Band 4_LTE-M1_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

1710.7MHz_16QAM_RB 1,#RB 0,NB 0

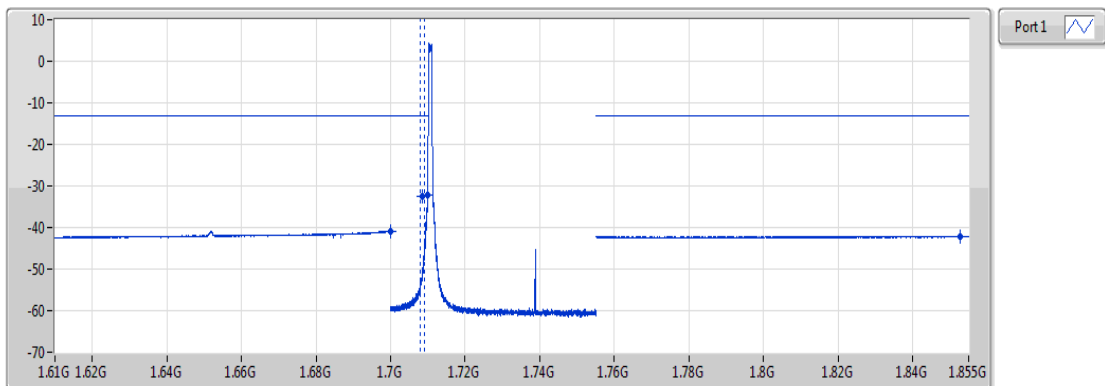


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69964G	-40.69	-13.00	-27.69	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-33.23	-13.00	-20.23	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.71G	-28.67	-13.00	-15.67	1	-
1.755G	1.855G	1M	3M	RMS	1.8253G	-42.02	-13.00	-29.02	1	-

Band 4_LTE-M1_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

1710.7MHz_16QAM_RB 5,#RB 0,NB 0

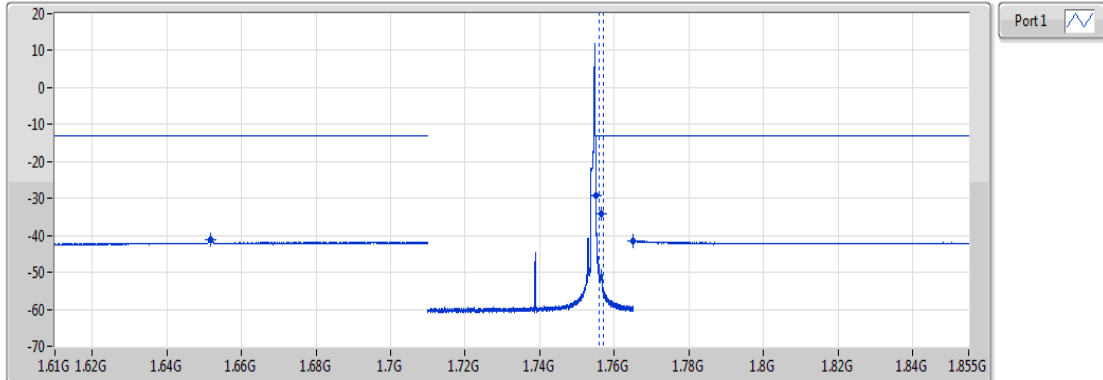


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69987G	-40.84	-13.00	-27.84	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-32.35	-13.00	-19.35	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.71G	-32.08	-13.00	-19.08	1	-
1.755G	1.855G	1M	3M	RMS	1.8275G	-42.10	-13.00	-29.10	1	-

Band 4_LTE-M1_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

1754.3MHz_16QAM_RB 1,#RB 5,NB 0

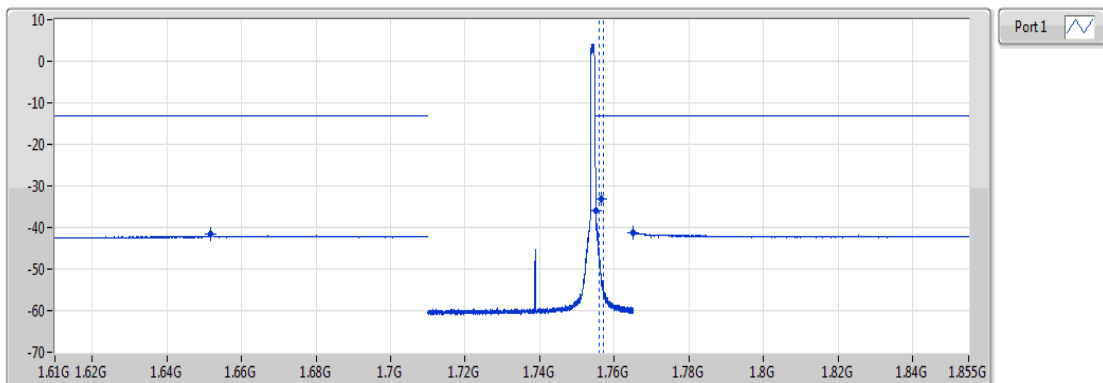


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.6518G	-41.27	-13.00	-28.27	1	-
1.755G	1.756G	15k	47k	RMS	1.755G	-29.17	-13.00	-16.17	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-34.02	-13.00	-21.02	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76505G	-41.40	-13.00	-28.40	1	-

Band 4_LTE-M1_1.4MHz_Nss1,16QAM_1TX

CSE-TX-Port

1754.3MHz_16QAM_RB 5,#RB 0,NB 0

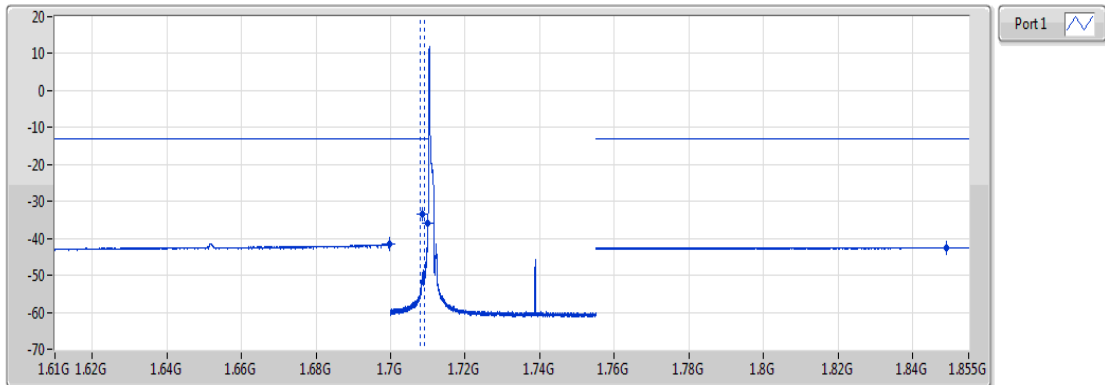


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.6518G	-41.60	-13.00	-28.60	1	-
1.755G	1.756G	15k	47k	RMS	1.75501G	-35.89	-13.00	-22.89	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-33.26	-13.00	-20.26	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.765G	-41.37	-13.00	-28.37	1	-

Band 4_LTE-M1_3MHz_Nss1,QPSK_1TX

CSE-TX-Port

1711.5MHz_QPSK_RB 1,#RB 0,NB 0

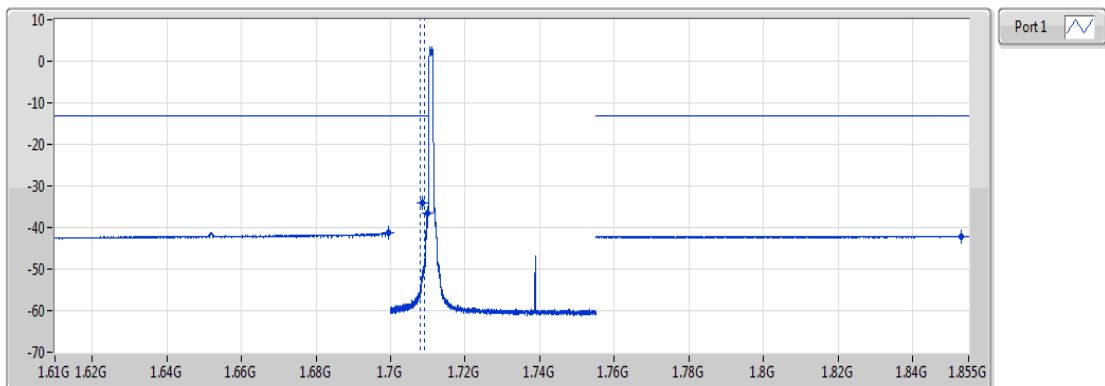


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.6996G	-41.40	-13.00	-28.40	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-33.59	-13.00	-20.59	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.71G	-36.05	-13.00	-23.05	1	-
1.755G	1.855G	1M	3M	RMS	1.8491G	-42.47	-13.00	-29.47	1	-

Band 4_LTE-M1_3MHz_Nss1,QPSK_1TX

CSE-TX-Port

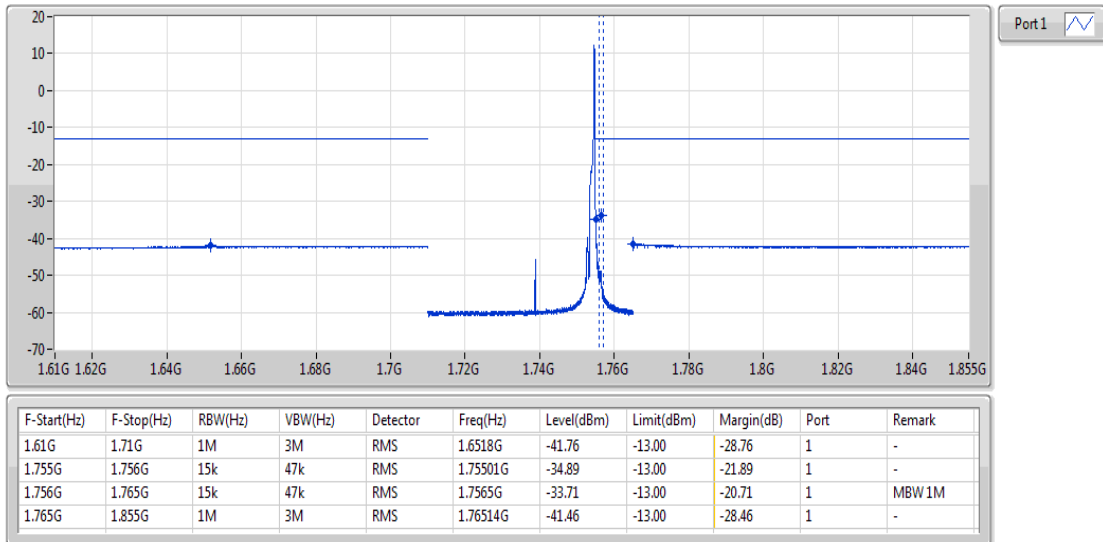
1711.5MHz_QPSK_RB 6,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69951G	-41.26	-13.00	-28.26	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-33.92	-13.00	-20.92	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70991G	-36.44	-13.00	-23.44	1	-
1.755G	1.855G	1M	3M	RMS	1.85295G	-42.04	-13.00	-29.04	1	-

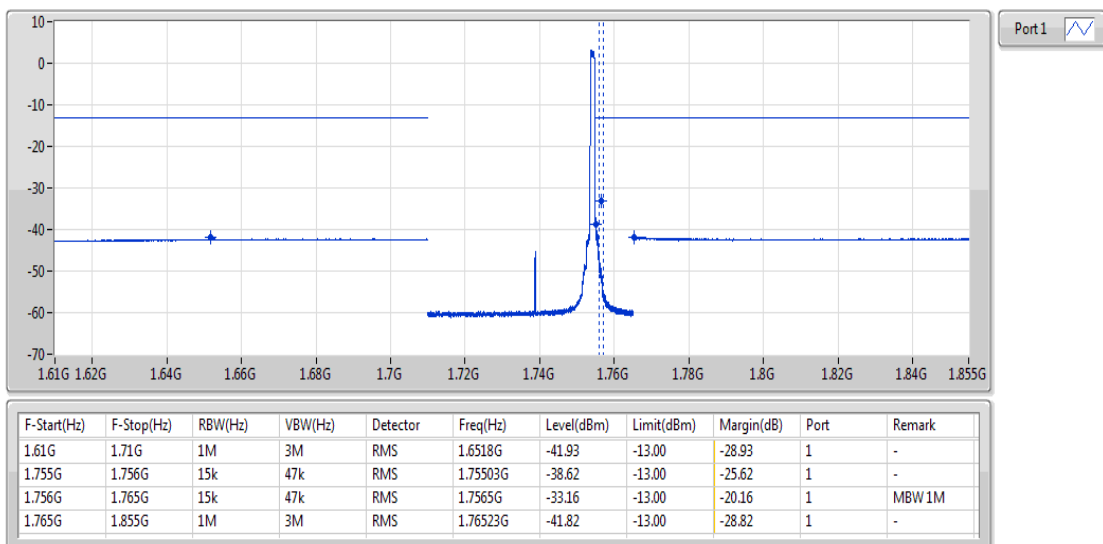
Band 4_LTE-M1_3MHz_Nss1,QPSK_1TX
1753.5MHz_QPSK_RB 1,#RB 5,NB 1

CSE-TX-Port



Band 4_LTE-M1_3MHz_Nss1,QPSK_1TX
1753.5MHz_QPSK_RB 6,#RB 0,NB 1

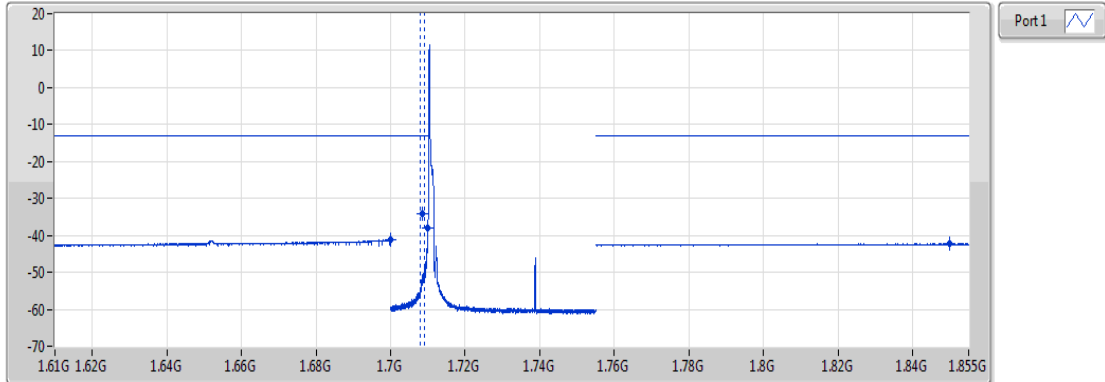
CSE-TX-Port



Band 4_LTE-M1_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

1711.5MHz_16QAM_RB 1,#RB 0,NB 0

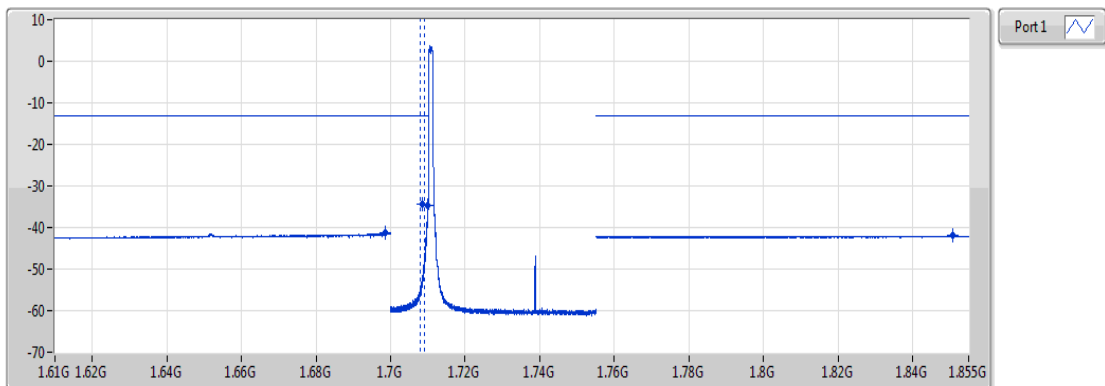


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69996G	-41.12	-13.00	-28.12	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-34.30	-13.00	-21.30	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70999G	-37.85	-13.00	-24.85	1	-
1.755G	1.855G	1M	3M	RMS	1.84975G	-42.34	-13.00	-29.34	1	-

Band 4_LTE-M1_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

1711.5MHz_16QAM_RB 5,#RB 0,NB 0

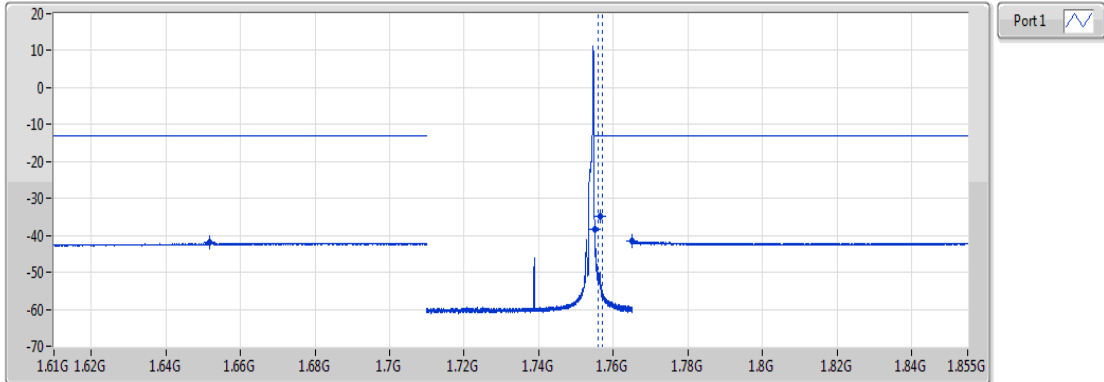


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69865G	-41.36	-13.00	-28.36	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-34.46	-13.00	-21.46	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70999G	-34.78	-13.00	-21.78	1	-
1.755G	1.855G	1M	3M	RMS	1.85075G	-42.02	-13.00	-29.02	1	-

Band 4_LTE-M1_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

1753.5MHz_16QAM_RB 1,#RB 5,NB 1

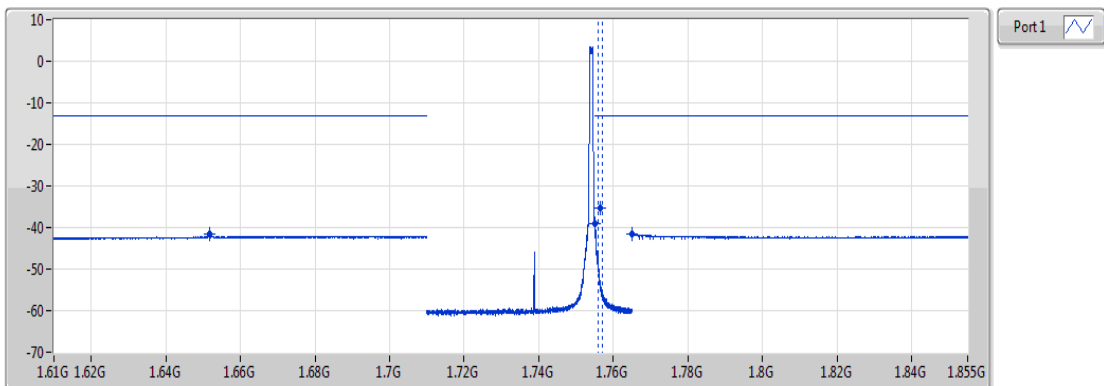


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.6517G	-41.80	-13.00	-28.80	1	-
1.755G	1.756G	15k	47k	RMS	1.75501G	-38.32	-13.00	-25.32	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-34.78	-13.00	-21.78	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.765G	-41.53	-13.00	-28.53	1	-

Band 4_LTE-M1_3MHz_Nss1,16QAM_1TX

CSE-TX-Port

1753.5MHz_16QAM_RB 5,#RB 0,NB 1

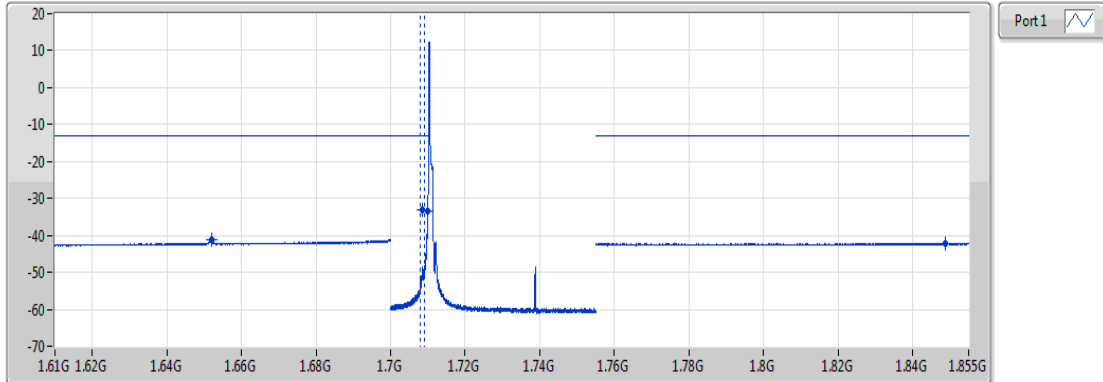


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.6517G	-41.53	-13.00	-28.53	1	-
1.755G	1.756G	15k	47k	RMS	1.75501G	-39.06	-13.00	-26.06	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-35.31	-13.00	-22.31	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76514G	-41.67	-13.00	-28.67	1	-

Band 4_LTE-M1_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

1712.5MHz_QPSK_RB 1,#RB 0,NB 0

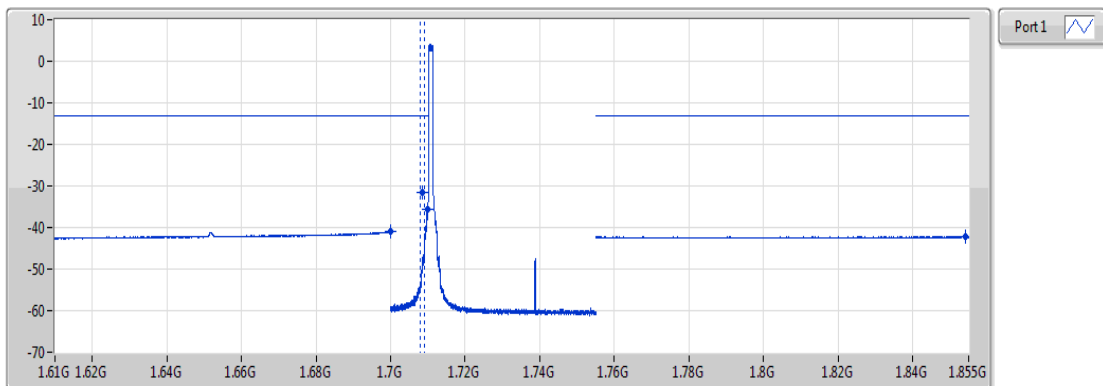


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.6519G	-41.26	-13.00	-28.26	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-33.04	-13.00	-20.04	1	MBW1M
1.709G	1.71G	15k	47k	RMS	1.70999G	-33.27	-13.00	-20.27	1	-
1.755G	1.855G	1M	3M	RMS	1.8487G	-42.24	-13.00	-29.24	1	-

Band 4_LTE-M1_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

1712.5MHz_QPSK_RB 6,#RB 0,NB 0

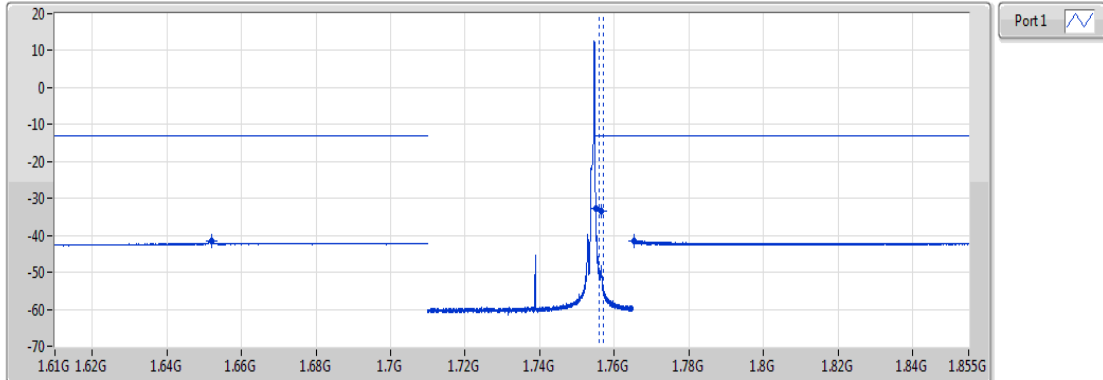


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.7G	-40.96	-13.00	-27.96	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-31.65	-13.00	-18.65	1	MBW1M
1.709G	1.71G	15k	47k	RMS	1.70996G	-35.57	-13.00	-22.57	1	-
1.755G	1.855G	1M	3M	RMS	1.85405G	-42.16	-13.00	-29.16	1	-

Band 4_LTE-M1_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

1752.5MHz_QPSK_RB 1,#RB 5,NB 3

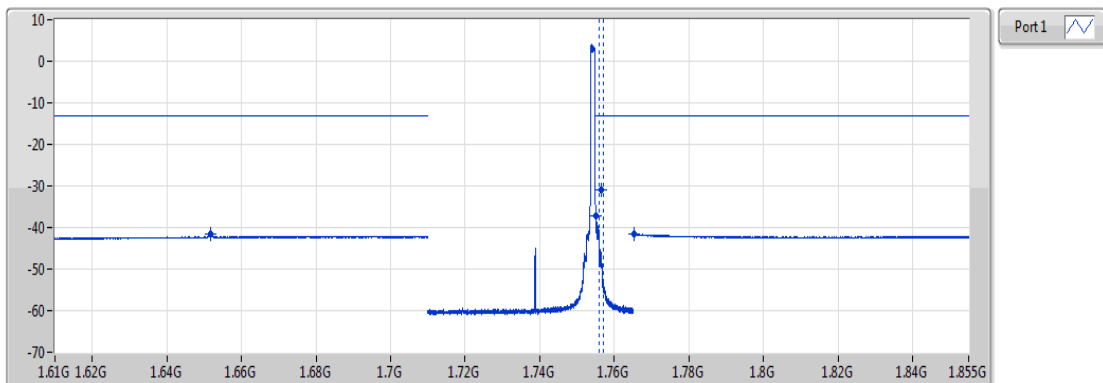


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.65205G	-41.51	-13.00	-28.51	1	-
1.755G	1.756G	15k	47k	RMS	1.755G	-32.79	-13.00	-19.79	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-33.36	-13.00	-20.36	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76518G	-41.45	-13.00	-28.45	1	-

Band 4_LTE-M1_5MHz_Nss1,QPSK_1TX

CSE-TX-Port

1752.5MHz_QPSK_RB 6,#RB 0,NB 3

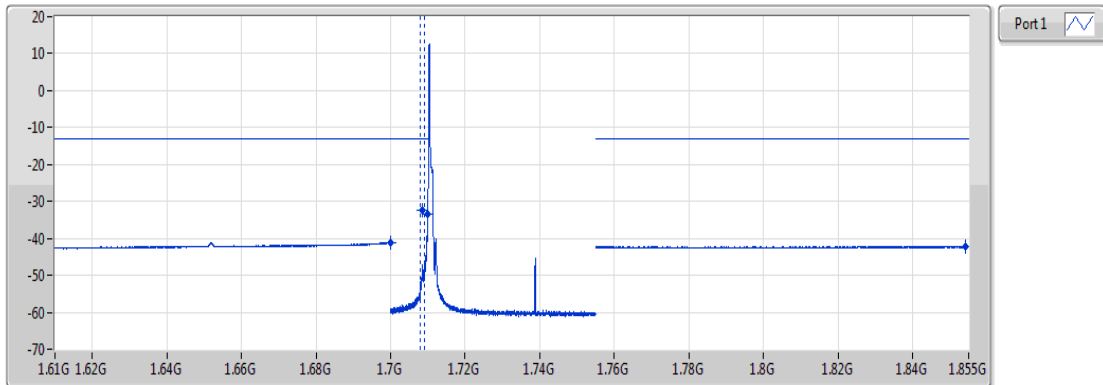


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.6518G	-41.57	-13.00	-28.57	1	-
1.755G	1.756G	15k	47k	RMS	1.75502G	-37.19	-13.00	-24.19	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-31.00	-13.00	-18.00	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76527G	-41.53	-13.00	-28.53	1	-

Band 4_LTE-M1_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

1712.5MHz_16QAM_RB 1,#RB 0,NB 0

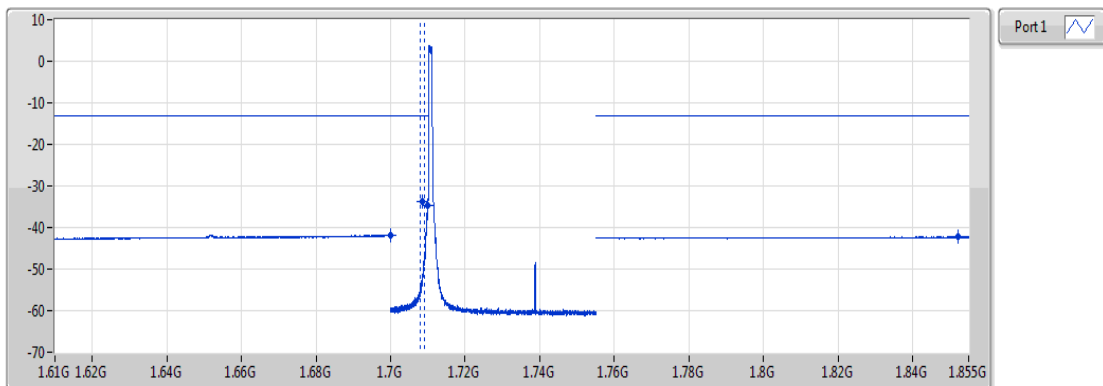


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69991G	-41.05	-13.00	-28.05	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-32.32	-13.00	-19.32	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.71G	-33.50	-13.00	-20.50	1	-
1.755G	1.855G	1M	3M	RMS	1.85405G	-42.24	-13.00	-29.24	1	-

Band 4_LTE-M1_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

1712.5MHz_16QAM_RB 5,#RB 0,NB 0

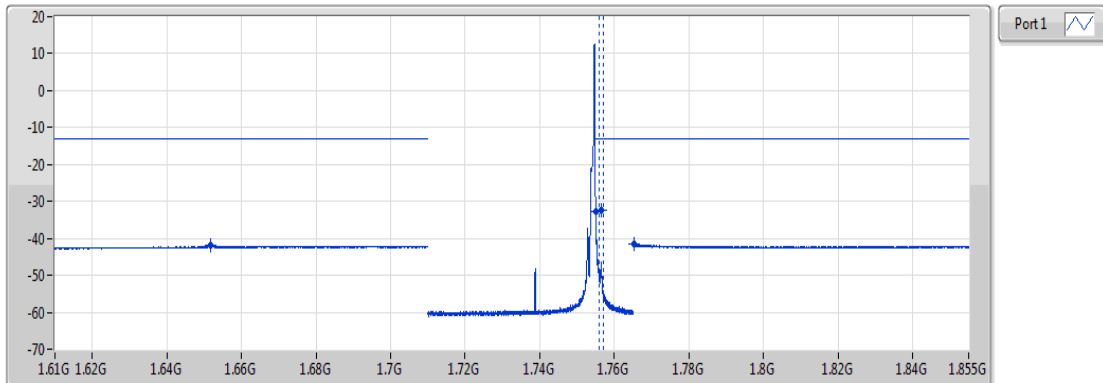


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69987G	-41.72	-13.00	-28.72	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-33.78	-13.00	-20.78	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70999G	-34.72	-13.00	-21.72	1	-
1.755G	1.855G	1M	3M	RMS	1.85215G	-42.25	-13.00	-29.25	1	-

Band 4_LTE-M1_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

1752.5MHz_16QAM_RB 1,#RB 5,NB 3

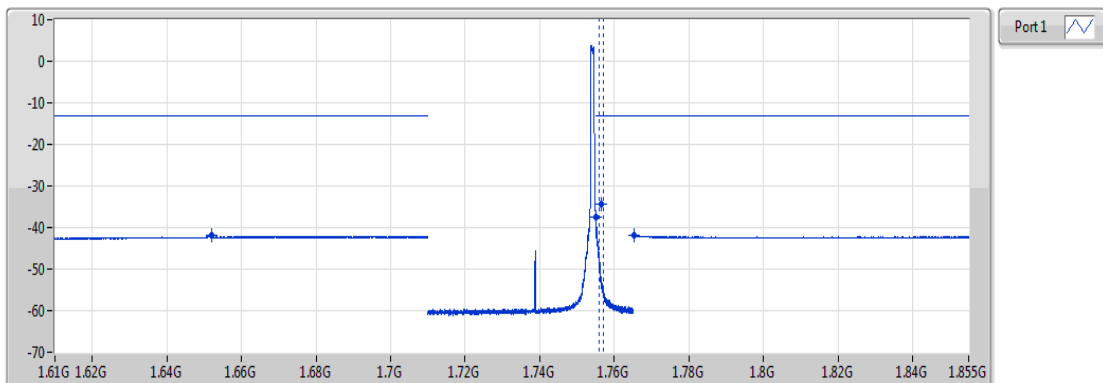


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.65175G	-41.78	-13.00	-28.78	1	-
1.755G	1.756G	15k	47k	RMS	1.755G	-32.90	-13.00	-19.90	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-32.25	-13.00	-19.25	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76518G	-41.55	-13.00	-28.55	1	-

Band 4_LTE-M1_5MHz_Nss1,16QAM_1TX

CSE-TX-Port

1752.5MHz_16QAM_RB 5,#RB 0,NB 3

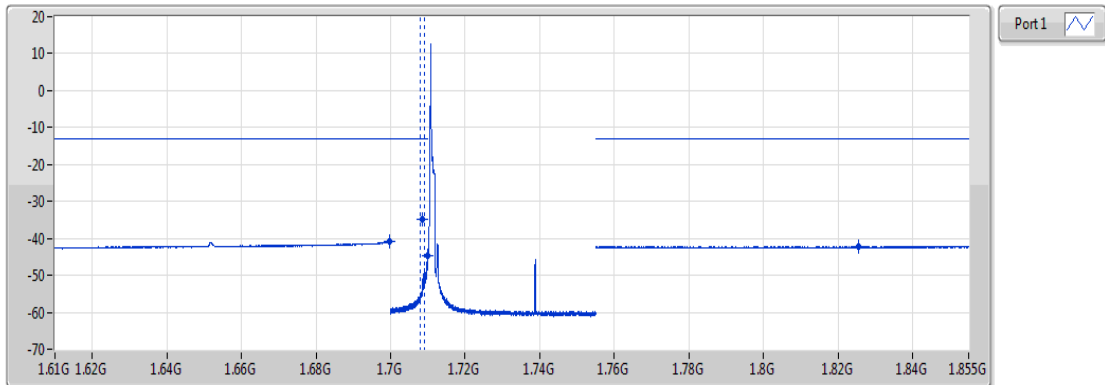


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.65195G	-41.72	-13.00	-28.72	1	-
1.755G	1.756G	15k	47k	RMS	1.75502G	-37.48	-13.00	-24.48	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-34.40	-13.00	-21.40	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76536G	-41.97	-13.00	-28.97	1	-

Band 4_LTE-M1_10MHz_Nss1,QPSK_1TX

CSE-TX-Port

1715MHz_QPSK_RB 1,#RB 0,NB 0

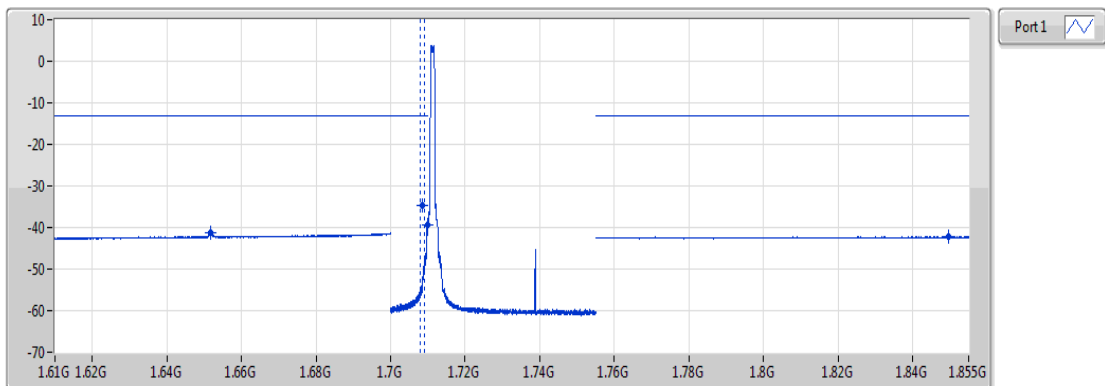


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69982G	-40.96	-13.00	-27.96	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-34.72	-13.00	-21.72	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70999G	-44.82	-13.00	-31.82	1	-
1.755G	1.855G	1M	3M	RMS	1.8256G	-42.23	-13.00	-29.23	1	-

Band 4_LTE-M1_10MHz_Nss1,QPSK_1TX

CSE-TX-Port

1715MHz_QPSK_RB 6,#RB 0,NB 0

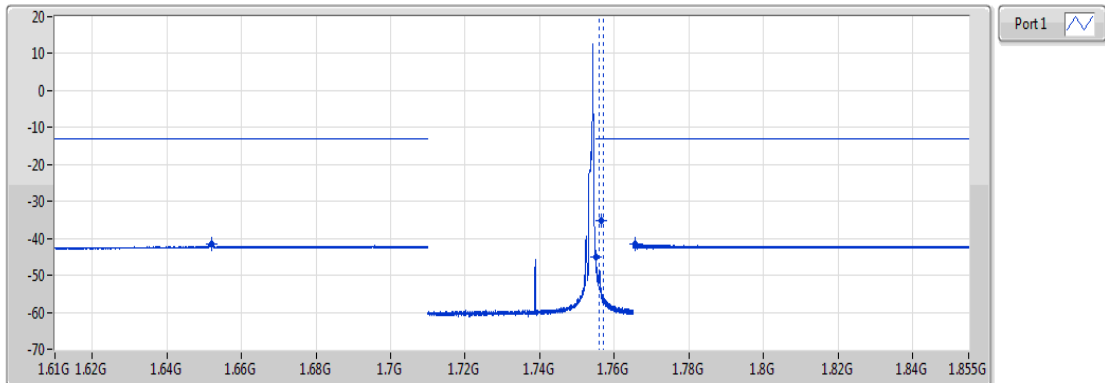


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.65181G	-41.29	-13.00	-28.29	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-34.54	-13.00	-21.54	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.71G	-39.46	-13.00	-26.46	1	-
1.755G	1.855G	1M	3M	RMS	1.84965G	-42.20	-13.00	-29.20	1	-

Band 4_LTE-M1_10MHz_Nss1,QPSK_1TX

CSE-TX-Port

1750MHz_QPSK_RB 1,#RB 5,NB 7

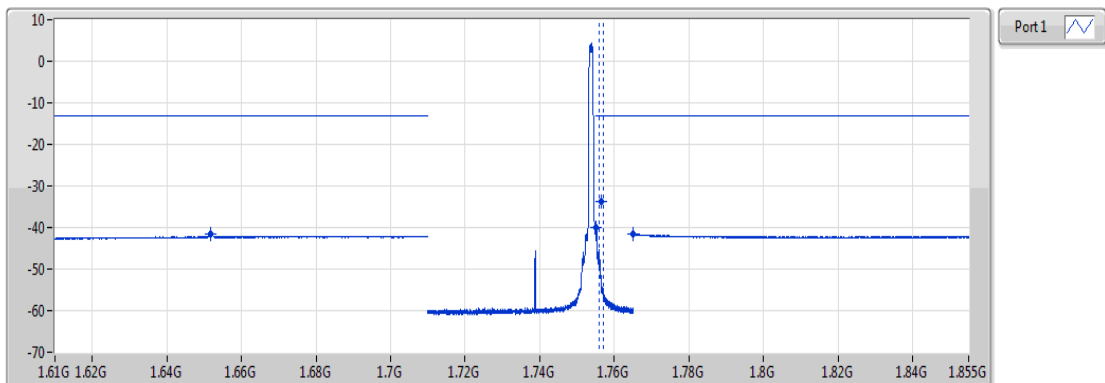


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.6519G	-41.52	-13.00	-28.52	1	-
1.755G	1.756G	15k	47k	RMS	1.75502G	-44.95	-13.00	-31.95	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-35.24	-13.00	-22.24	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76554G	-41.48	-13.00	-28.48	1	-

Band 4_LTE-M1_10MHz_Nss1,QPSK_1TX

CSE-TX-Port

1750MHz_QPSK_RB 6,#RB 0,NB 7

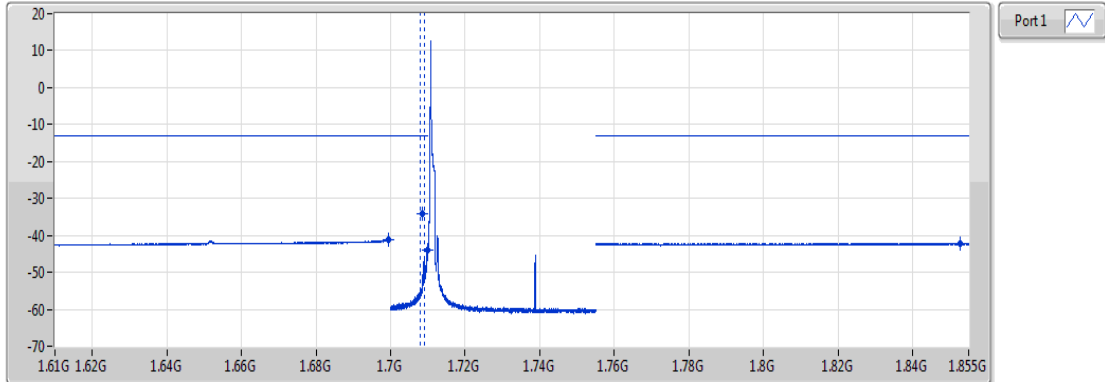


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.71G	1M	3M	RMS	1.65175G	-41.57	-13.00	-28.57	1	-
1.755G	1.756G	15k	47k	RMS	1.7551G	-40.01	-13.00	-27.01	1	-
1.756G	1.765G	15k	47k	RMS	1.7565G	-33.87	-13.00	-20.87	1	MBW1M
1.765G	1.855G	1M	3M	RMS	1.76505G	-41.59	-13.00	-28.59	1	-

Band 4_LTE-M1_10MHz_Nss1,16QAM_1TX

CSE-TX-Port

1715MHz_16QAM_RB 1,#RB 0,NB 0

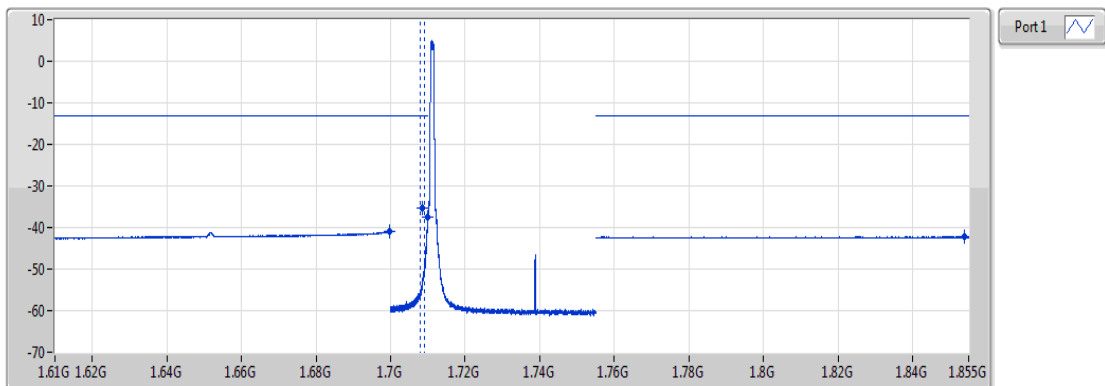


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69946G	-41.33	-13.00	-28.33	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-34.00	-13.00	-21.00	1	MBW1M
1.709G	1.71G	15k	47k	RMS	1.70997G	-44.02	-13.00	-31.02	1	-
1.755G	1.855G	1M	3M	RMS	1.85285G	-42.21	-13.00	-29.21	1	-

Band 4_LTE-M1_10MHz_Nss1,16QAM_1TX

CSE-TX-Port

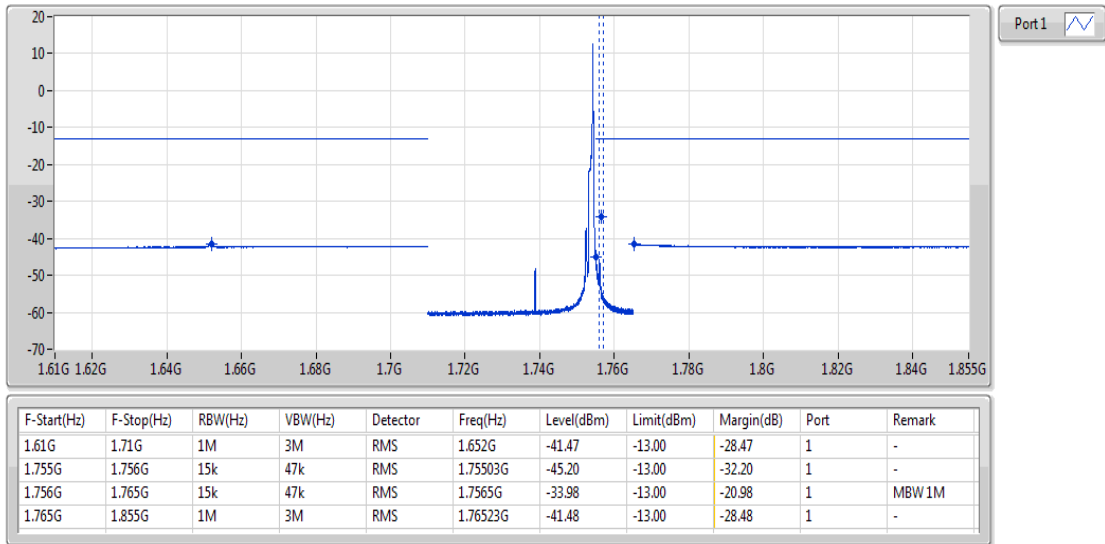
1715MHz_16QAM_RB 5,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69978G	-41.05	-13.00	-28.05	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-35.17	-13.00	-22.17	1	MBW1M
1.709G	1.71G	15k	47k	RMS	1.71G	-37.59	-13.00	-24.59	1	-
1.755G	1.855G	1M	3M	RMS	1.85375G	-42.21	-13.00	-29.21	1	-

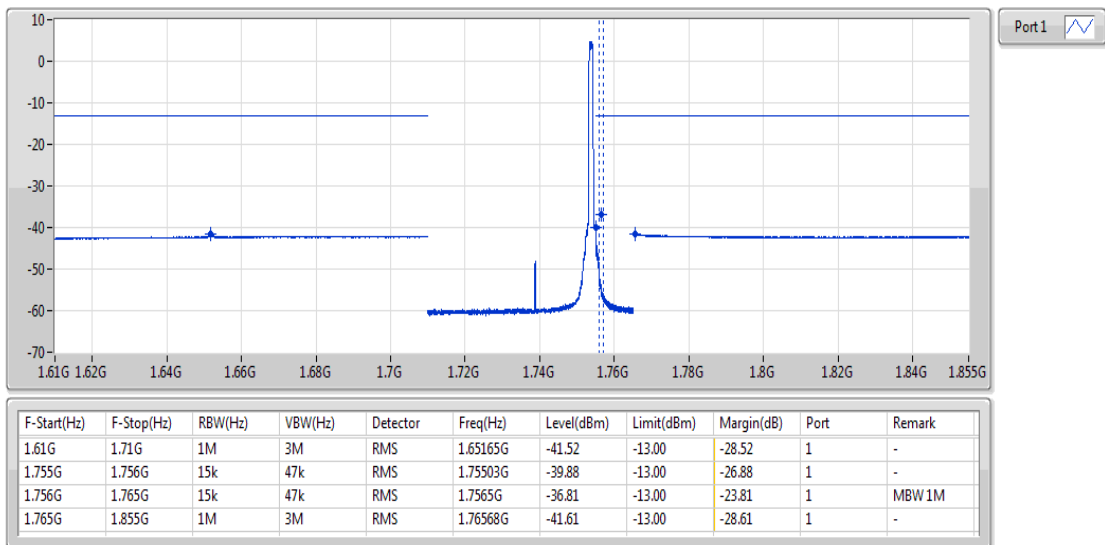
Band 4_LTE-M1_10MHz_Nss1,16QAM_1TX
1750MHz_16QAM_RB 1,#RB 5,NB 7

CSE-TX-Port



Band 4_LTE-M1_10MHz_Nss1,16QAM_1TX
1750MHz_16QAM_RB 5,#RB 0,NB 7

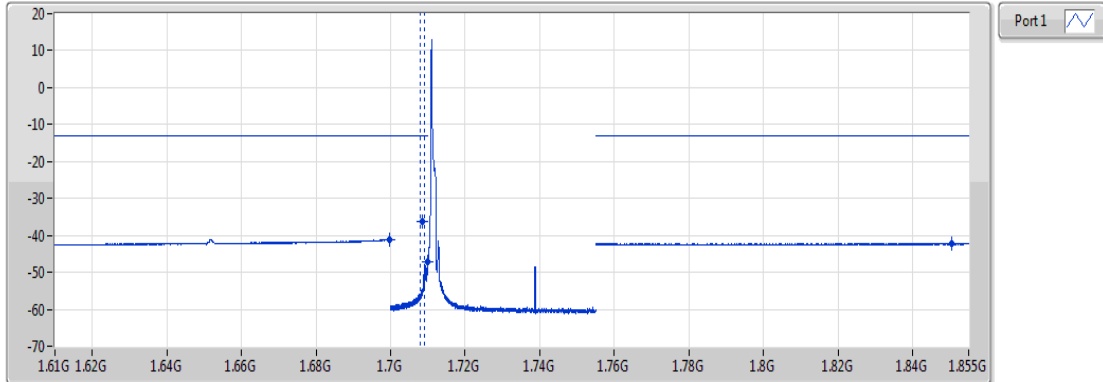
CSE-TX-Port



Band 4_LTE-M1_15MHz_Nss1,QPSK_1TX

CSE-TX-Port

1717.5MHz_QPSK_RB 1,#RB 0,NB 0

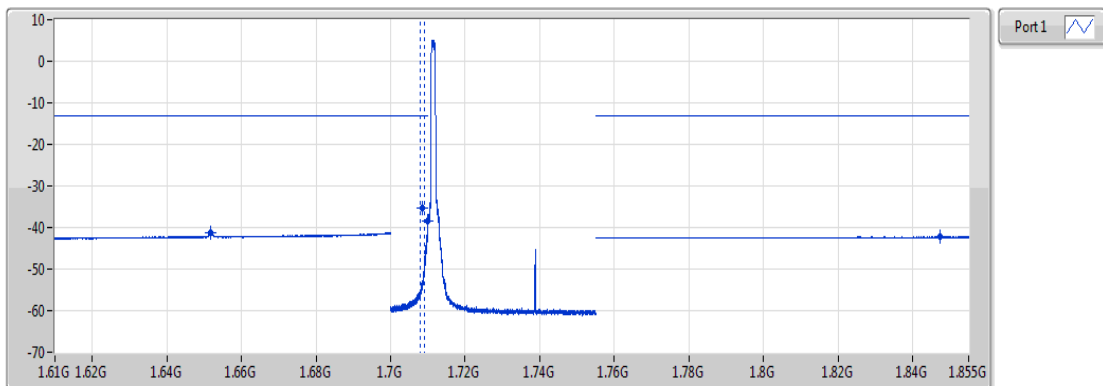


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69978G	-41.05	-13.00	-28.05	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-36.31	-13.00	-23.31	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70994G	-47.15	-13.00	-34.15	1	-
1.755G	1.855G	1M	3M	RMS	1.85055G	-42.23	-13.00	-29.23	1	-

Band 4_LTE-M1_15MHz_Nss1,QPSK_1TX

CSE-TX-Port

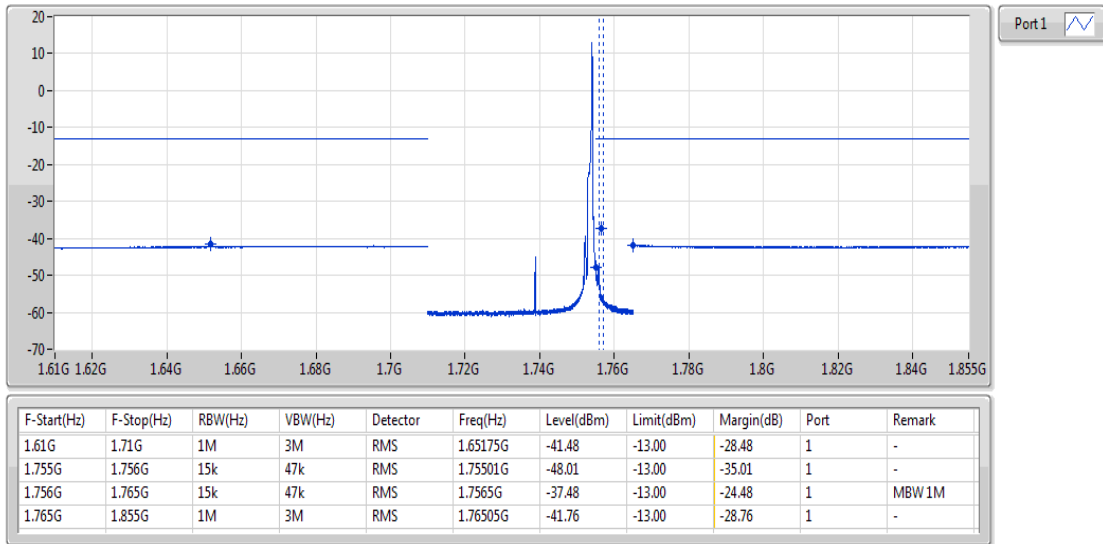
1717.5MHz_QPSK_RB 6,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.65172G	-41.27	-13.00	-28.27	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-35.20	-13.00	-22.20	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70995G	-38.36	-13.00	-25.36	1	-
1.755G	1.855G	1M	3M	RMS	1.8473G	-42.25	-13.00	-29.25	1	-

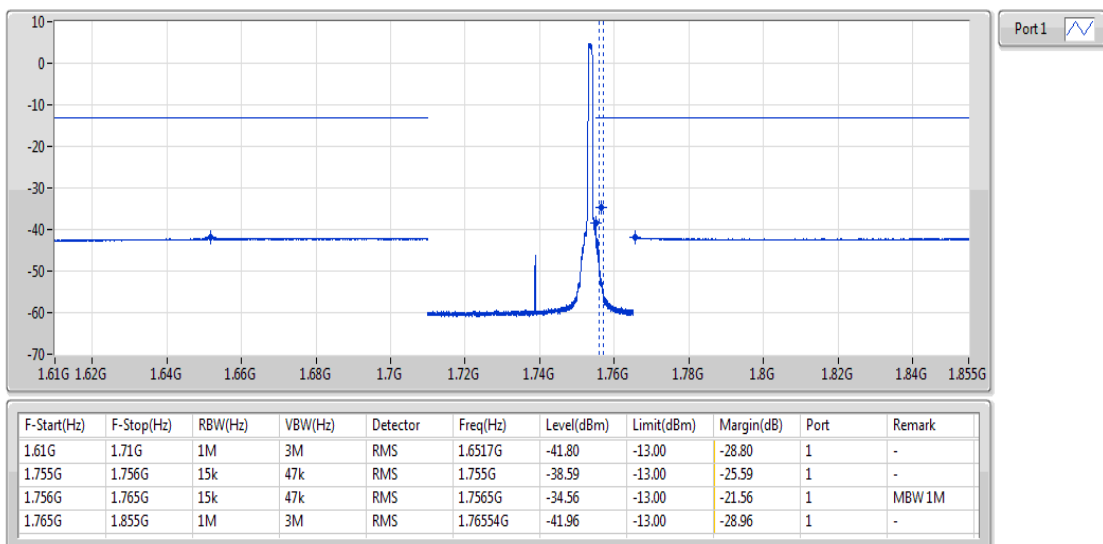
Band 4_LTE-M1_15MHz_Nss1,QPSK_1TX
1747.5MHz_QPSK_RB 1,#RB 5,NB 11

CSE-TX-Port



Band 4_LTE-M1_15MHz_Nss1,QPSK_1TX
1747.5MHz_QPSK_RB 6,#RB 0,NB 11

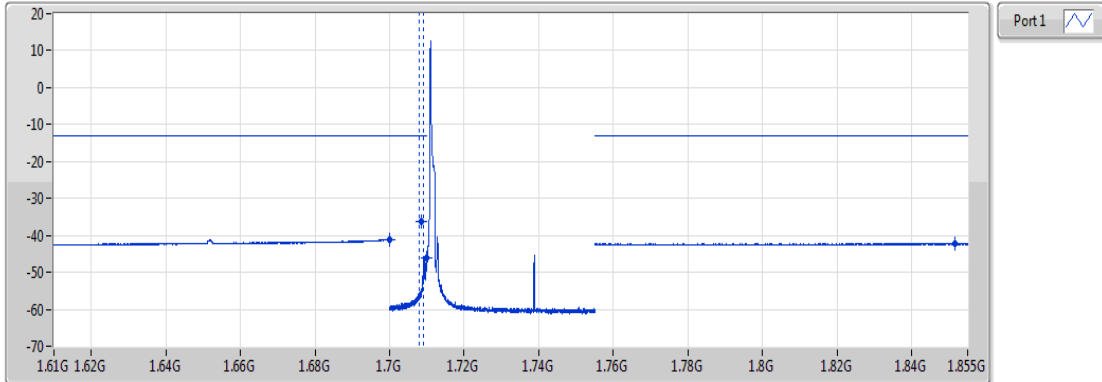
CSE-TX-Port



Band 4_LTE-M1_15MHz_Nss1,16QAM_1TX

CSE-TX-Port

1717.5MHz_16QAM_RB 1,#RB 0,NB 0

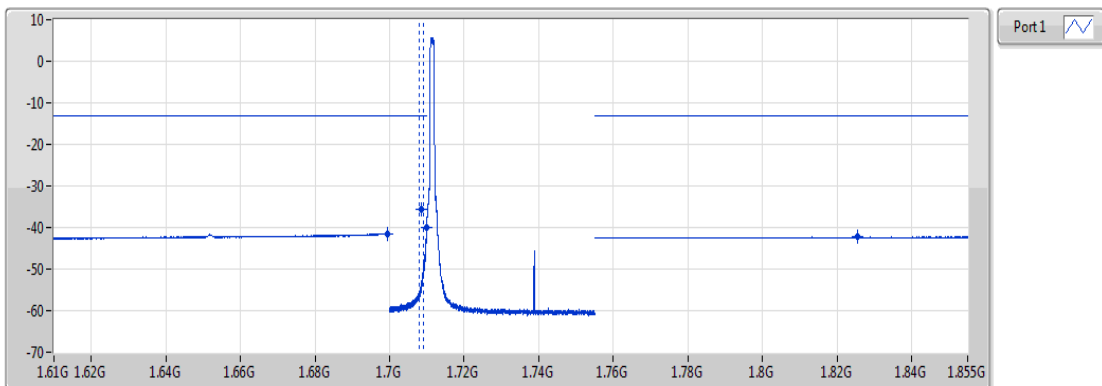


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69996G	-41.04	-13.00	-28.04	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-36.36	-13.00	-23.36	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70999G	-45.92	-13.00	-32.92	1	-
1.755G	1.855G	1M	3M	RMS	1.8516G	-42.25	-13.00	-29.25	1	-

Band 4_LTE-M1_15MHz_Nss1,16QAM_1TX

CSE-TX-Port

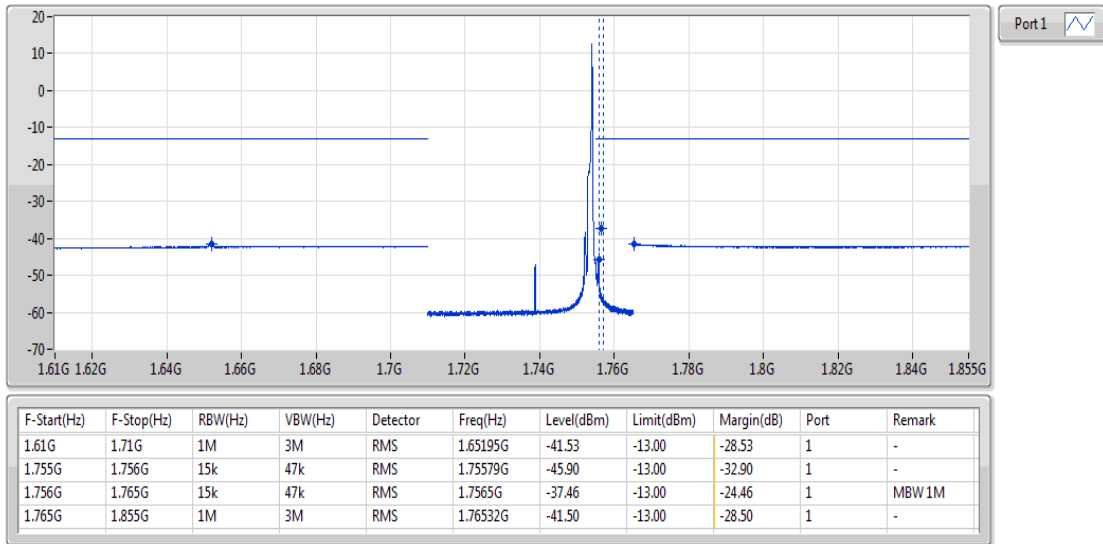
1717.5MHz_16QAM_RB 5,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69955G	-41.42	-13.00	-28.42	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-35.68	-13.00	-22.68	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70996G	-39.96	-13.00	-26.96	1	-
1.755G	1.855G	1M	3M	RMS	1.82535G	-42.26	-13.00	-29.26	1	-

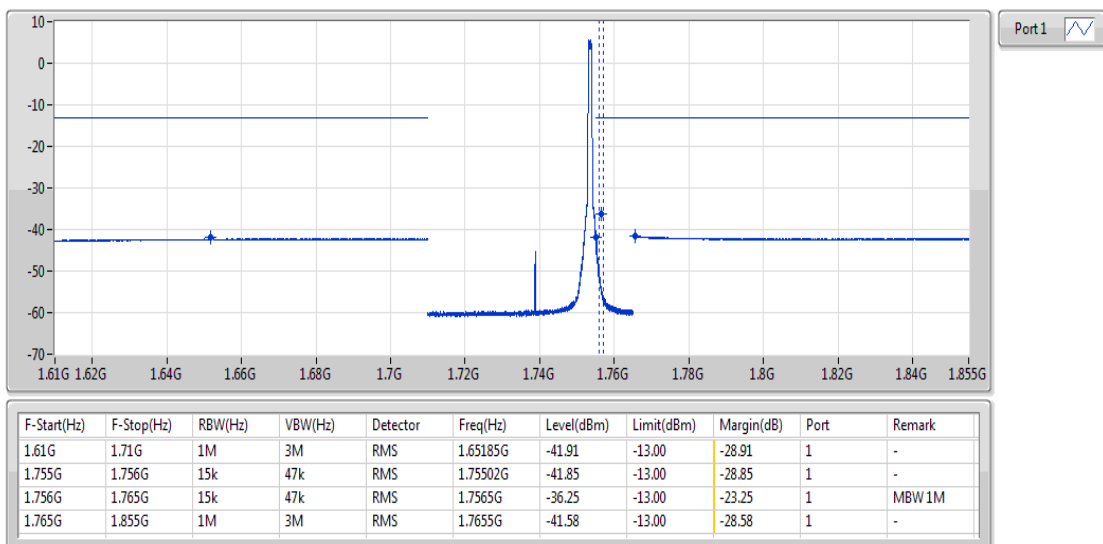
Band 4_LTE-M1_15MHz_Nss1,16QAM_1TX
1747.5MHz_16QAM_RB 1,#RB 5,NB 11

CSE-TX-Port



Band 4_LTE-M1_15MHz_Nss1,16QAM_1TX
1747.5MHz_16QAM_RB 5,#RB 0,NB 11

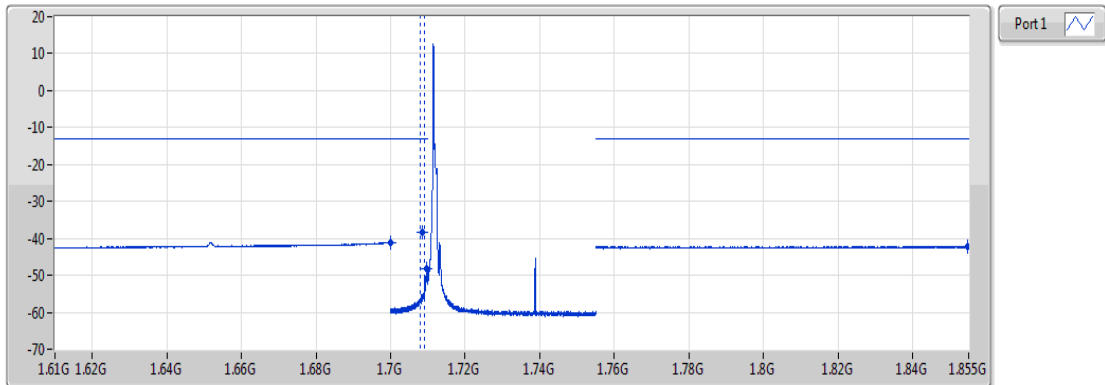
CSE-TX-Port



Band 4_LTE-M1_20MHz_Nss1,QPSK_1TX

CSE-TX-Port

1720MHz_QPSK_RB 1,#RB 0,NB 0

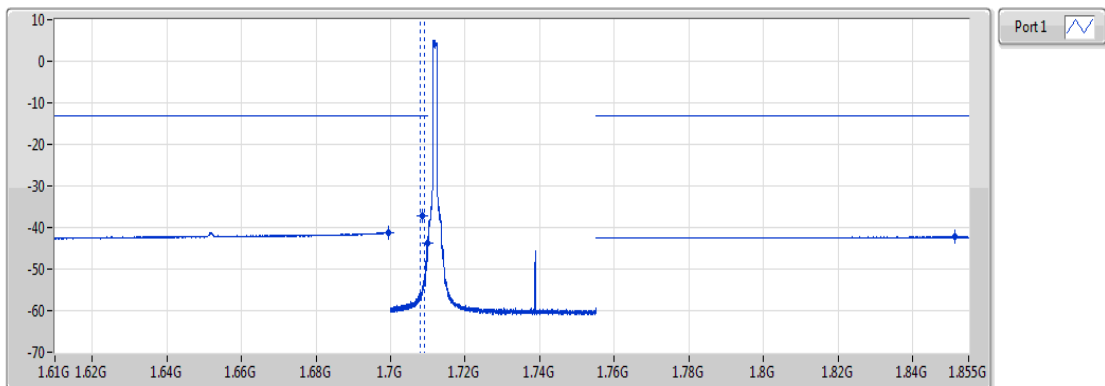


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69991G	-41.02	-13.00	-28.02	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-38.19	-13.00	-25.19	1	MBW1M
1.709G	1.71G	15k	47k	RMS	1.70969G	-48.11	-13.00	-35.11	1	-
1.755G	1.855G	1M	3M	RMS	1.8548G	-42.21	-13.00	-29.21	1	-

Band 4_LTE-M1_20MHz_Nss1,QPSK_1TX

CSE-TX-Port

1720MHz_QPSK_RB 6,#RB 0,NB 0

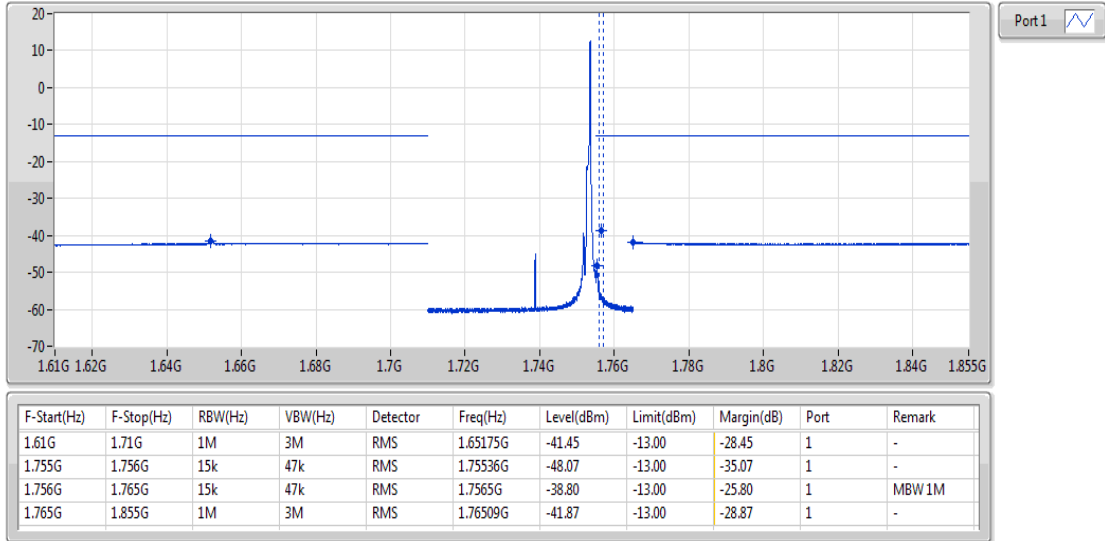


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69942G	-41.10	-13.00	-28.10	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-37.15	-13.00	-24.15	1	MBW1M
1.709G	1.71G	15k	47k	RMS	1.70999G	-43.88	-13.00	-30.88	1	-
1.755G	1.855G	1M	3M	RMS	1.8513G	-42.22	-13.00	-29.22	1	-

Band 4_LTE-M1_20MHz_Nss1,QPSK_1TX

CSE-TX-Port

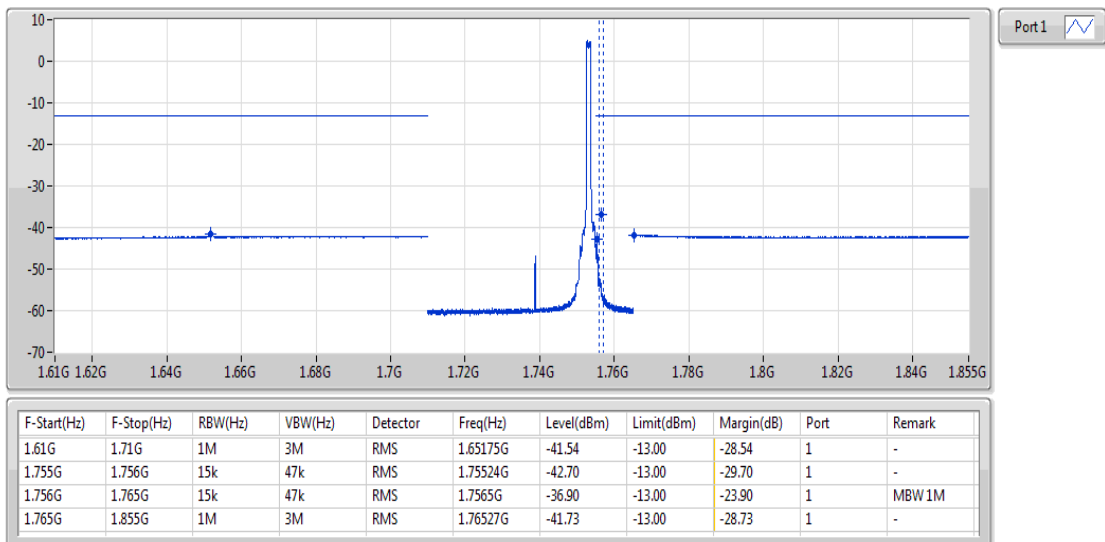
1745MHz_QPSK_RB 1,#RB 5,NB 15



Band 4_LTE-M1_20MHz_Nss1,QPSK_1TX

CSE-TX-Port

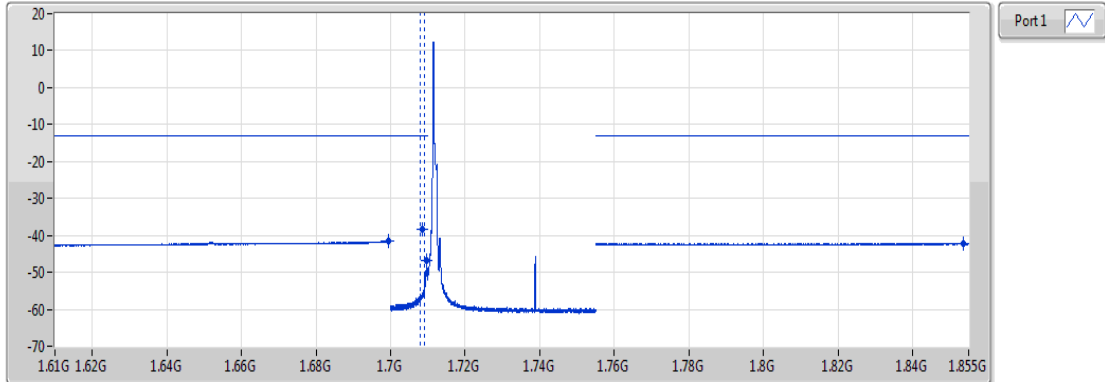
1745MHz_QPSK_RB 6,#RB 0,NB 15



Band 4_LTE-M1_20MHz_Nss1,16QAM_1TX

CSE-TX-Port

1720MHz_16QAM_RB 1,#RB 0,NB 0

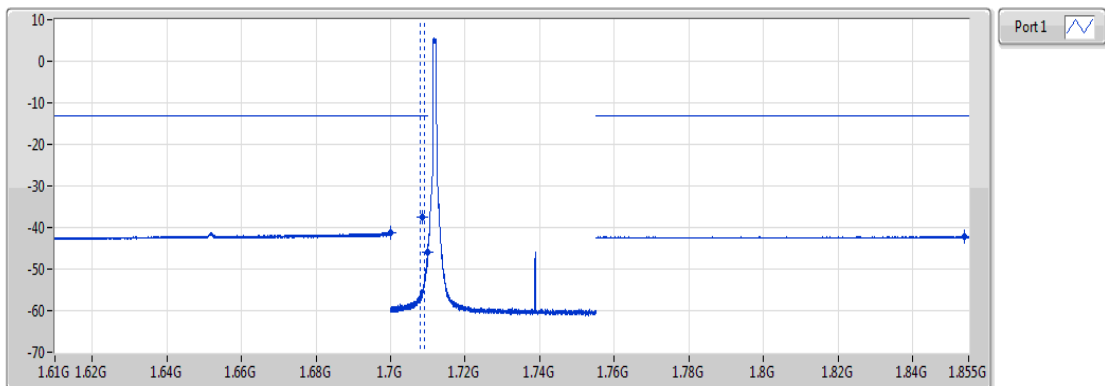


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.69942G	-41.60	-13.00	-28.60	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-38.27	-13.00	-25.27	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.7097G	-46.76	-13.00	-33.76	1	-
1.755G	1.855G	1M	3M	RMS	1.85345G	-42.23	-13.00	-29.23	1	-

Band 4_LTE-M1_20MHz_Nss1,16QAM_1TX

CSE-TX-Port

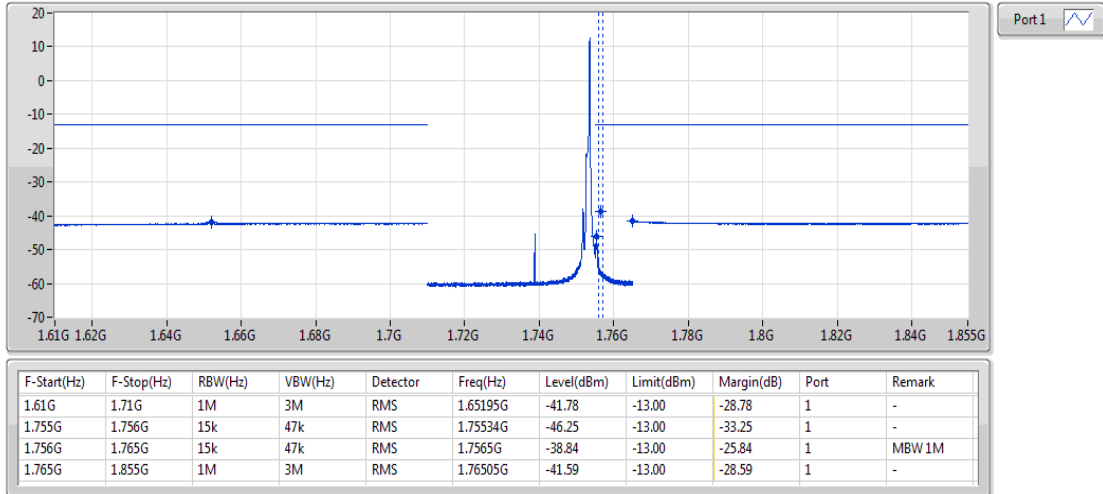
1720MHz_16QAM_RB 5,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark
1.61G	1.7G	1M	3M	RMS	1.7G	-41.11	-13.00	-28.11	1	-
1.7G	1.709G	15k	47k	RMS	1.7085G	-37.64	-13.00	-24.64	1	MBW 1M
1.709G	1.71G	15k	47k	RMS	1.70999G	-45.81	-13.00	-32.81	1	-
1.755G	1.855G	1M	3M	RMS	1.8538G	-42.23	-13.00	-29.23	1	-

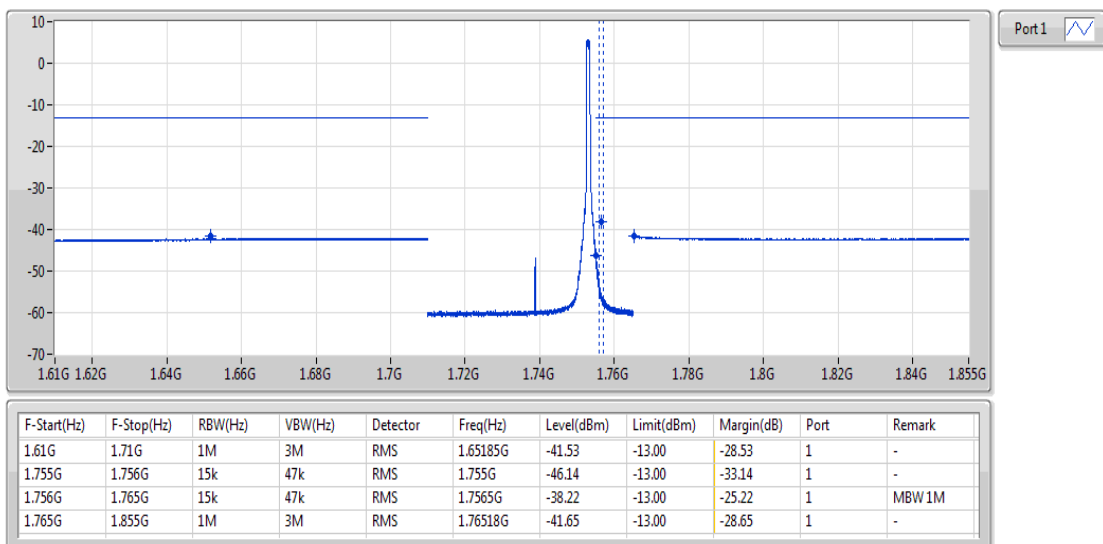
Band 4_LTE-M1_20MHz_Nss1,16QAM_1TX
1745MHz_16QAM_RB 1,#RB 5,NB 15

CSE-TX-Port



Band 4_LTE-M1_20MHz_Nss1,16QAM_1TX
1745MHz_16QAM_RB 5,#RB 0,NB 15

CSE-TX-Port



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>.

Linkou

Tel: 886-2-2601-1640

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Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

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No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

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

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==