

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Partial

Applicant: Telit Communications S.p.A.
Via Stazione di Prosecco 5/b 34010 Sgonico - Trieste

Manufacturer: Telit Wireless Solutions. Co. Ltd.
13th Fl., Shinyoung Securities Bld, 6, Gukjegeumyung-ro 8-gil,
Yeongdeungpo-gu, Seoul, 07330, South Korea

Product Name: LN920A12-WW / LN920A6-WW

Brand Name: Telit

Model No.: LN920A12-WW / LN920A6-WW

Model Difference: Refer to Page 4

Report Number: TERF2206000794ER

FCC ID RI7LN920

Issue Date: July 5, 2022

Date of Test: June 8, 2022 ~ June 20, 2022

Date of EUT Received: June 6, 2022

Approved By

Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 96.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2206000794ER	00	HW change from 1.0 to 1.1	July 5, 2022	Yuri Tsai	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received, and are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).
- 3、This is a partial test report with modification from HW1.0 to HW 1.1 based on the EUT in the original report ER/2021/A0028-01 to demonstrate compliance of modification of RF switches and passive filters with identical specification. Maximum output power, conducted out of band emissions and spurious emissions are tested in this report.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	LN920A12-WW / LN920A6-WW
Brand Name:	Telit
Model No.:	LN920A12-WW / LN920A6-WW
Model Difference:	1. Internal Component is different between two model. 2. Capability is different between two model.
Hardware Version:	1.1
Firmware Version:	LN920A12-WW: M0L.000002 / LN920A6-WW : M0L.010002
EUT Series No.:	354175753009531, 354175753009600
Power Supply:	3.3Vdc
Test Software (Name/Version)	Default

1.2 Model difference

- The mobile data modem chip on U200 between two models are pin for pin compatible with identical internal circuits.
- The **LN920A6-WW** uses MOBILE DATA MODEM SDX12-2 with CAT12 features disabled by a fuse bit with different FVIN.
- The **LN920A12-WW** is tested as the representative sample with the most modem capabilities.

Model	FVIN	Component on U200	Modem Capability
LN920A12-WW	M0L.000002	MOBILE DATA MODEM SDX12-0	LTE, 4 × 4 MIMO, CA 60 MHz DL 256QAM DL, CA 40 MHz UL, 64 QAM UL,
LN920A6-WW	M0L.010002	MOBILE DATA MODEM SDX12-2	LTE, 4 × 4 MIMO, CA 40 MHz DL, 64 QAM DL, CA 20 MHz UL, 16 QAM UL

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1.3 Antenna Designation

Antenna Type	Antenna Model No.
Dipole	WE14-S3-2
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Type	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Dipole	LTE-Band 42	3400 ~ 3600	1
	LTE-Band 43	3600 ~ 3700	1
	LTE-Band 48	3550 ~ 3700	1

Note: Antenna information is provided by the applicant.

1.4 Operation Frequencies

LTE Band 48			
BW (MHz)	Operation Frequency (MHz)		
5	3552.5	-	3697.5
10	3555.0	-	3695.0
15	3557.5	-	3692.5
20	3560.0	-	3690.0

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, Part 96E

ANSI C63.26-2015

ANSI/ITA C603-E.2016

KDB 971168 D01 Power Meas license Digital System v03r01

KDB 940660 D01 Part 96 CBRS Eqpt v02

KDB 412172 D01 Determining ERP and EIRP V01r01

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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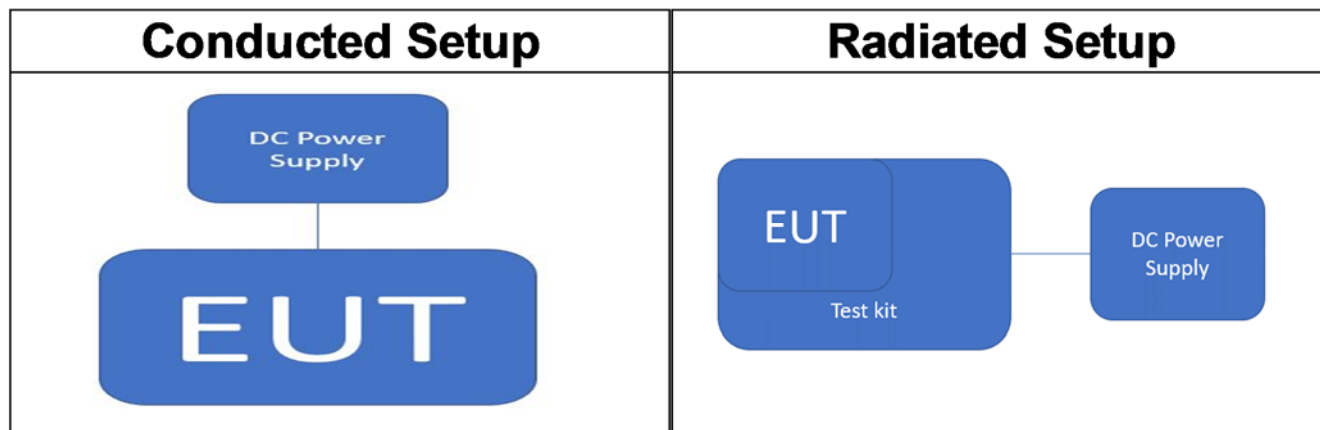
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2.5 Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 48_20M QPSK	3.3	460

2.6 Test Configuration



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.7 Control Unit(s)

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §96.41(b)	Maximum Power Output	Compliant
§2.1053, §96.41(e)	FIELD STRENGTH OF SPURIOUS RADIATION	Compliant
§2.1051 §96.41(e)	OUT OF BAND EMISSION AT ANTENNA	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

4.2 Measurement Configuration

LTE Band 48 MODE

Test Items				Max. Output Power											
Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
48	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V
Test Items				Band Edge											
Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
	L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
48	V	-	V	-	-	V	V	V	V	V	-	-	V	V	V

Radiated Emission

Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Start
42	Low, Mid, High	20	QPSK	1	0
43	Low, Mid, High	20	QPSK	1	0
48	Low, Mid, High	20	QPSK	1	0

Note: LTE band 42/43 is covered by LTE band 48 because it is a subset of Band 48 and they have same output power.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Output Power measurement	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.53 Hz
Frequency Stability vs. Voltage	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.57 dB	9kHz~30MHz
	+/- 4.85 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.57 dB	9kHz~30MHz
	+/- 4.37 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/13/2021	10/12/2022
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2022	01/17/2023
DC Power Supply	Agilent	E3640A	MY52410006	12/21/2021	12/20/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-020	12/14/2021	12/13/2022

6.2 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	300	10/19/2021	10/18/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/20/2021	12/19/2022
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/03/2022	01/02/2023
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/16/2022	05/15/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022
Site Cal	SGS	SAC I chamber	N/A	01/01/2022	12/31/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/26/2021	10/25/2022
Signal Generator	R&S	SMBV100A	263084	01/11/2022	01/10/2023
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2022	01/17/2023
DC Power Supply	Gwinstek	SPS-3610	GEV856750	08/04/2021	08/03/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2021	12/15/2022
Pre-Amplifier	HP	8447D	2944A09469	12/16/2021	12/15/2022
Bandreject Filter 3300-3800	Micro-Tronics	WI	1	12/14/2021	12/13/2022
4GHz High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2021	12/15/2022

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7 MAXIMUM OUTPUT POWER MEASUREMENT

7.1 Standard Applicable

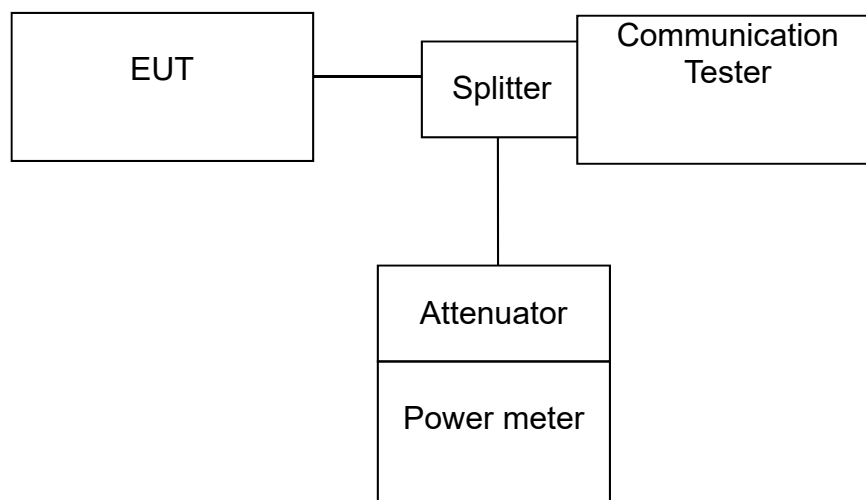
FCC §2.1046 & 96.41

- (a) FCC 96.41(a) Digital modulation. Systems operating in the Citizens Broadband Radio Service must use digital modulation techniques.
- (b) FCC 96.41(b) Power limits. Unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD ¹	47

Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§96.15 and 96.67.

7.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

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7.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

Determining ERP and/or EIRP from conducted RF output power measurements

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

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

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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7.4 Measurement Result:

Antenna gain (dBi)		1							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
5	55265	3552.5	QPSK	1	0	21.68	22.68	23	-0.32
				1	24	21.68	22.68	23	-0.32
				12	6	20.65	21.65	23	-1.35
				25	0	20.65	21.65	23	-1.35
	55990	3625	QPSK	1	0	21.64	22.64	23	-0.36
				1	24	21.64	22.64	23	-0.36
				12	6	20.69	21.69	23	-1.31
				25	0	20.72	21.72	23	-1.28
	56715	3697.5	QPSK	1	0	21.49	22.49	23	-0.51
				1	24	21.48	22.48	23	-0.52
				12	6	20.53	21.53	23	-1.47
				25	0	20.54	21.54	23	-1.46
5	55265	3552.5	16QAM	1	0	20.90	21.90	23	-1.1
				1	24	20.86	21.86	23	-1.14
				12	6	19.68	20.68	23	-2.32
				25	0	19.71	20.71	23	-2.29
	55990	3625	16QAM	1	0	20.88	21.88	23	-1.12
				1	24	20.87	21.87	23	-1.13
				12	6	19.74	20.74	23	-2.26
				25	0	19.70	20.70	23	-2.3
	56715	3697.5	16QAM	1	0	20.74	21.74	23	-1.26
				1	24	20.76	21.76	23	-1.24
				12	6	19.59	20.59	23	-2.41
				25	0	19.59	20.59	23	-2.41
5	55265	3552.5	64QAM	1	0	19.67	20.67	23	-2.33
				1	24	19.65	20.65	23	-2.35
				12	6	18.73	19.73	23	-3.27
				25	0	18.75	19.75	23	-3.25
	55990	3625	64QAM	1	0	19.68	20.68	23	-2.32
				1	24	19.64	20.64	23	-2.36
				12	6	18.78	19.78	23	-3.22
				25	0	18.74	19.74	23	-3.26
	56715	3697.5	64QAM	1	0	19.50	20.50	23	-2.5
				1	24	19.52	20.52	23	-2.48
				12	6	18.66	19.66	23	-3.34
				25	0	18.95	19.95	23	-3.05

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Antenna gain (dBi)		1							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
10	55290	3555	QPSK	1	0	21.57	22.57	23	-0.43
				1	49	21.58	22.58	23	-0.42
				25	12	20.66	21.66	23	-1.34
				50	0	20.62	21.62	23	-1.38
	55990	3625	QPSK	1	0	21.72	22.72	23	-0.28
				1	49	21.69	22.69	23	-0.31
				25	12	20.72	21.72	23	-1.28
				50	0	20.73	21.73	23	-1.27
	56690	3695	QPSK	1	0	21.45	22.45	23	-0.55
				1	49	21.49	22.49	23	-0.51
				25	12	20.55	21.55	23	-1.45
				50	0	20.55	21.55	23	-1.45
10	55290	3555	16QAM	1	0	20.89	21.89	23	-1.11
				1	49	20.87	21.87	23	-1.13
				25	12	19.69	20.69	23	-2.31
				50	0	19.72	20.72	23	-2.28
	55990	3625	16QAM	1	0	20.90	21.90	23	-1.1
				1	49	20.87	21.87	23	-1.13
				25	12	19.76	20.76	23	-2.24
				50	0	19.78	20.78	23	-2.22
	56690	3695	16QAM	1	0	20.74	21.74	23	-1.26
				1	49	20.78	21.78	23	-1.22
				25	12	19.61	20.61	23	-2.39
				50	0	19.60	20.60	23	-2.4
10	55290	3555	64QAM	1	0	19.63	20.63	23	-2.37
				1	49	19.63	20.63	23	-2.37
				25	12	18.76	19.76	23	-3.24
				50	0	18.67	19.67	23	-3.33
	55990	3625	64QAM	1	0	19.68	20.68	23	-2.32
				1	49	19.63	20.63	23	-2.37
				25	12	18.80	19.80	23	-3.2
				50	0	18.75	19.75	23	-3.25
	56690	3695	64QAM	1	0	19.52	20.52	23	-2.48
				1	49	19.56	20.56	23	-2.44
				25	12	18.68	19.68	23	-3.32
				50	0	18.57	19.57	23	-3.43

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Antenna gain (dBi)		1							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
15	55315	3557.5	QPSK	1	0	21.67	22.67	23	-0.33
				1	74	21.74	22.74	23	-0.26
				36	18	20.65	21.65	23	-1.35
				75	0	20.63	21.63	23	-1.37
	55990	3625	QPSK	1	0	21.72	22.72	23	-0.28
				1	74	21.63	22.63	23	-0.37
				36	18	20.72	21.72	23	-1.28
				75	0	20.70	21.70	23	-1.3
	56665	3692.5	QPSK	1	0	21.43	22.43	23	-0.57
				1	74	21.56	22.56	23	-0.44
				36	18	20.54	21.54	23	-1.46
				75	0	20.52	21.52	23	-1.48
15	55315	3557.5	16QAM	1	0	20.86	21.86	23	-1.14
				1	74	20.91	21.91	23	-1.09
				36	18	19.64	20.64	23	-2.36
				75	0	19.67	20.67	23	-2.33
	55990	3625	16QAM	1	0	20.90	21.90	23	-1.1
				1	74	20.92	21.92	23	-1.08
				36	18	19.70	20.70	23	-2.3
				75	0	19.73	20.73	23	-2.27
	56665	3692.5	16QAM	1	0	20.72	21.72	23	-1.28
				1	74	20.81	21.81	23	-1.19
				36	18	19.53	20.53	23	-2.47
				75	0	19.57	20.57	23	-2.43
15	55315	3557.5	64QAM	1	0	19.61	20.61	23	-2.39
				1	74	19.66	20.66	23	-2.34
				36	18	18.72	19.72	23	-3.28
				75	0	18.67	19.67	23	-3.33
	55990	3625	64QAM	1	0	19.67	20.67	23	-2.33
				1	74	19.71	20.71	23	-2.29
				36	18	18.73	19.73	23	-3.27
				75	0	18.73	19.73	23	-3.27
	56665	3692.5	64QAM	1	0	19.46	20.46	23	-2.54
				1	74	19.56	20.56	23	-2.44
				36	18	18.58	19.58	23	-3.42
				75	0	18.54	19.54	23	-3.46

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Antenna gain (dBi)		1							
LTE Band 48_Uplink frequency band : 3550 to 3700 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/10MHz)	EIRP Average (dBm/10MHz)	EIRP Limit (dBm/10MHz)	Margin (dBm/10MHz)
20	55340	3560	QPSK	1	0	21.76	22.76	23	-0.24
				1	99	21.69	22.69	23	-0.31
				50	25	20.62	21.62	23	-1.38
				100	0	20.75	21.75	23	-1.25
	55990	3625	QPSK	1	0	21.72	22.72	23	-0.28
				1	99	21.74	22.74	23	-0.26
				50	25	20.76	21.76	23	-1.24
				100	0	20.74	21.74	23	-1.26
	56640	3690	QPSK	1	0	21.47	22.47	23	-0.53
				1	99	21.56	22.56	23	-0.44
				50	25	20.56	21.56	23	-1.44
				100	0	20.55	21.55	23	-1.45
20	55340	3560	16QAM	1	0	20.85	21.85	23	-1.15
				1	99	20.96	21.96	23	-1.04
				50	25	19.71	20.71	23	-2.29
				100	0	19.77	20.77	23	-2.23
	55990	3625	16QAM	1	0	20.90	21.90	23	-1.1
				1	99	20.94	21.94	23	-1.06
				50	25	19.76	20.76	23	-2.24
				100	0	19.78	20.78	23	-2.22
	56640	3690	16QAM	1	0	20.69	21.69	23	-1.31
				1	99	20.78	21.78	23	-1.22
				50	25	19.61	20.61	23	-2.39
				100	0	19.59	20.59	23	-2.41
20	55340	3560	64QAM	1	0	19.60	20.60	23	-2.4
				1	99	19.74	20.74	23	-2.26
				50	25	18.66	19.66	23	-3.34
				100	0	18.73	19.73	23	-3.27
	55990	3625	64QAM	1	0	19.70	20.70	23	-2.3
				1	99	19.71	20.71	23	-2.29
				50	25	18.73	19.73	23	-3.27
				100	0	18.77	19.77	23	-3.23
	56640	3690	64QAM	1	0	19.45	20.45	23	-2.55
				1	99	19.58	20.58	23	-2.42
				50	25	18.60	19.60	23	-3.4
				100	0	18.56	19.56	23	-3.44

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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

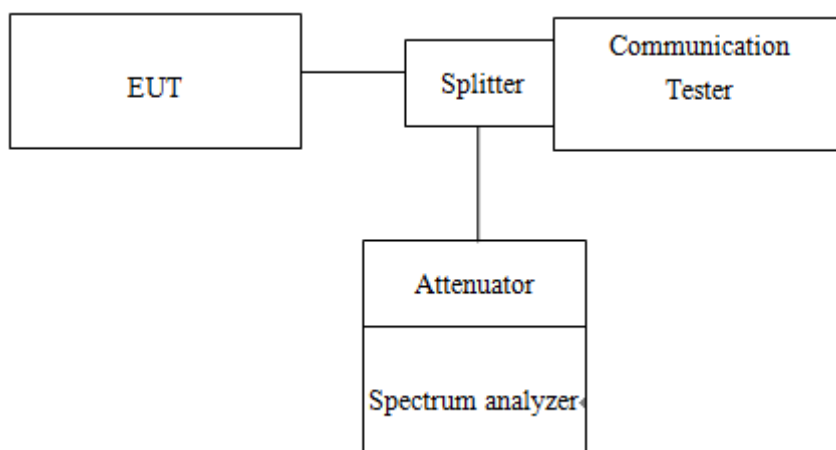
8.1 Standard Applicable

FCC Part 2.1051, Part 96.41, C63.26 Clause 5.7.

For channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

8.2 Test SET-UP



8.3 Measurement Procedure

8.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

To connect Antenna Port of EUT to Spectrum.

Set RBW = 1MHz & VBW = 1MHz on Spectrum.

Allow trace to fully stabilize

Repeat above procedures until all default test channel measured were complete.

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8.3.2 Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured.
Setting RBW $\geq$ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

8.4 Test Results:

Refer to next page for test plots.

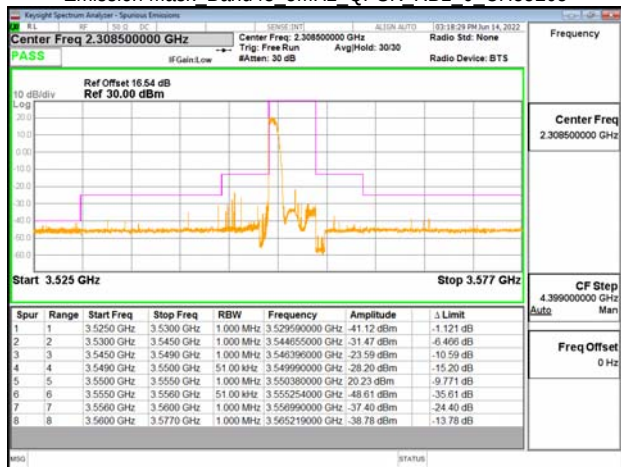
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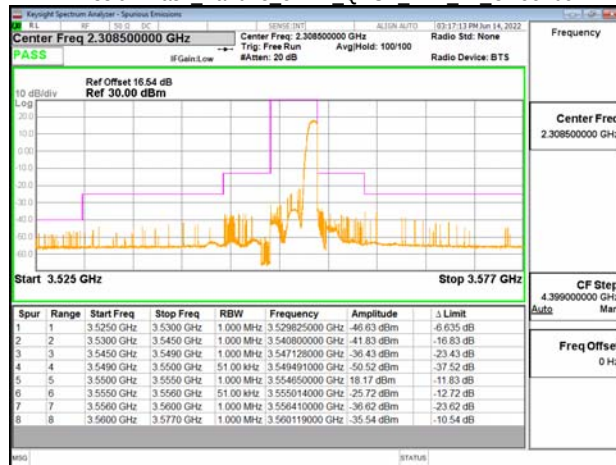
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8.4.1 Band Edge:

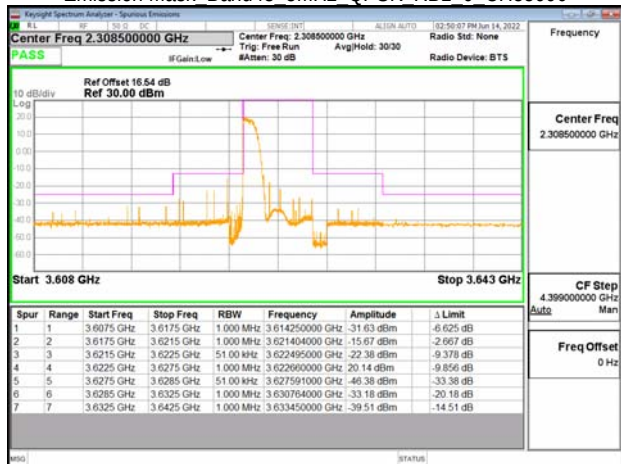
Emission Mask Band48 5MHz QPSK RB1 0 CH55265



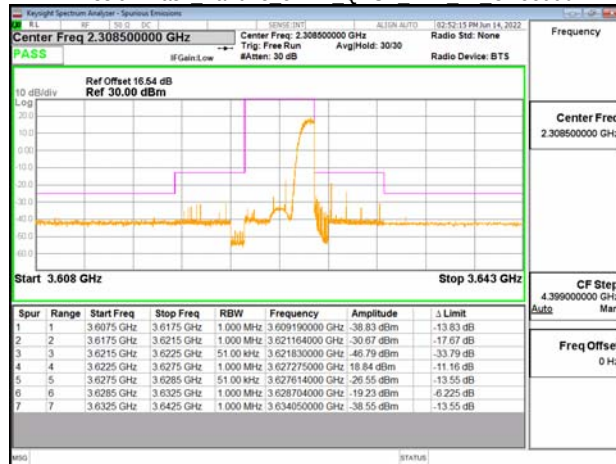
Emission Mask Band48 5MHz QPSK RB1 24 CH55265



Emission Mask Band48 5MHz QPSK RB1 0 CH55990



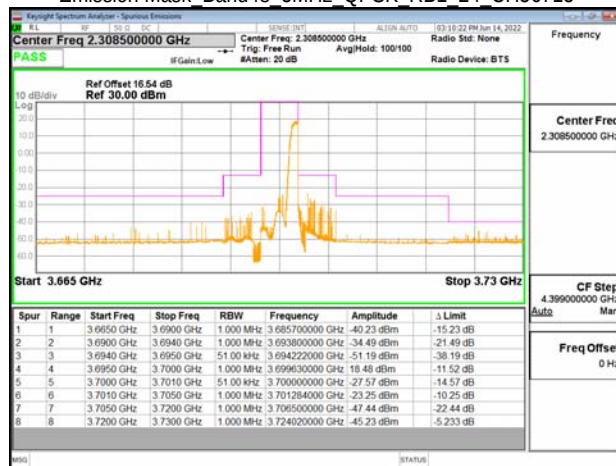
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Emission Mask Band48 5MHz QPSK RB1 0 CH56715



Emission Mask Band48 5MHz QPSK RB1 24 CH56715

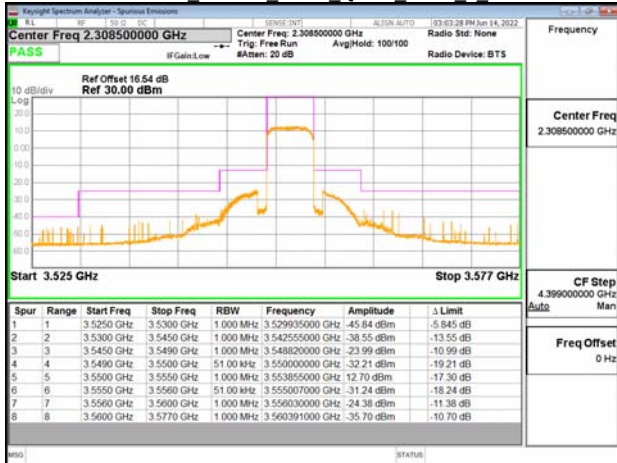


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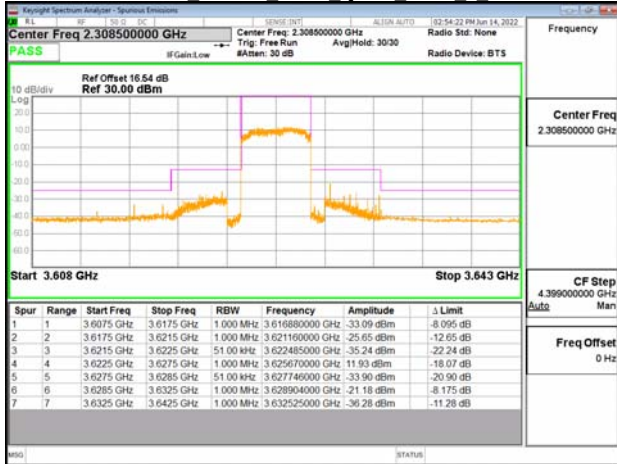
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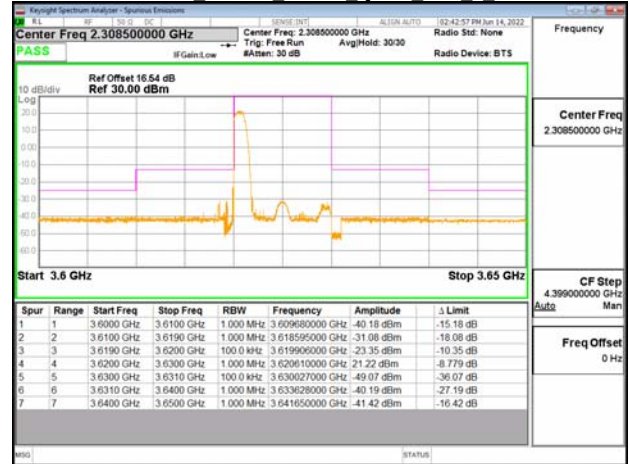
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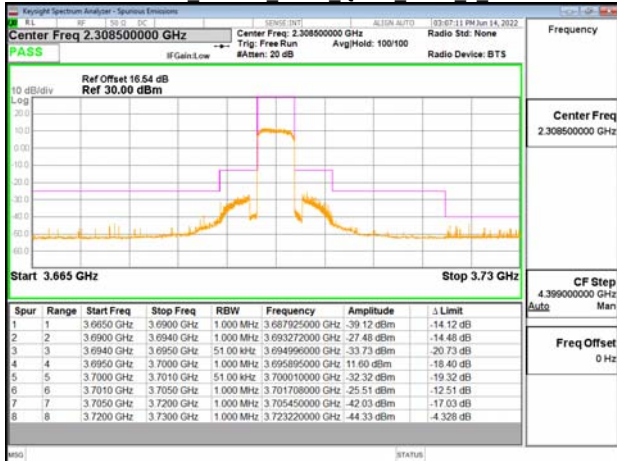
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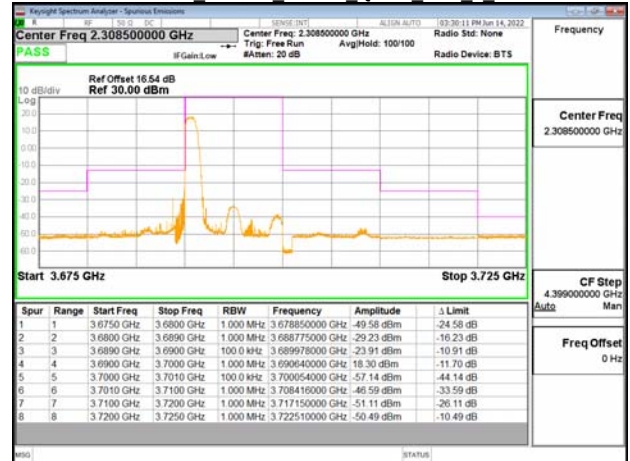
Emission Mask Band48 10MHz QPSK RB1 0 CH55990



Emission Mask Band48 5MHz QPSK RB25 0 CH56715



Emission Mask Band48 10MHz QPSK RB1 0 CH56690

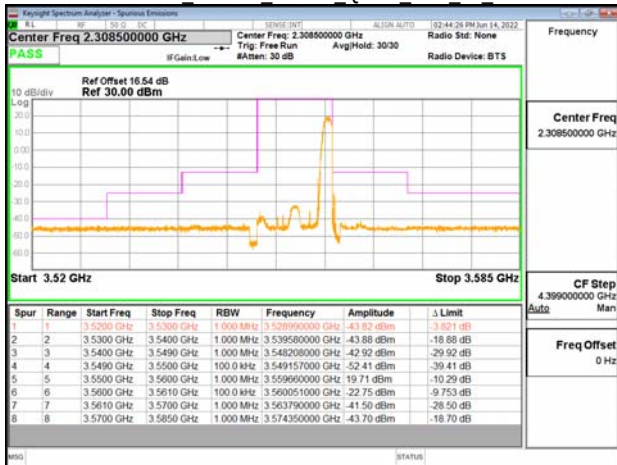


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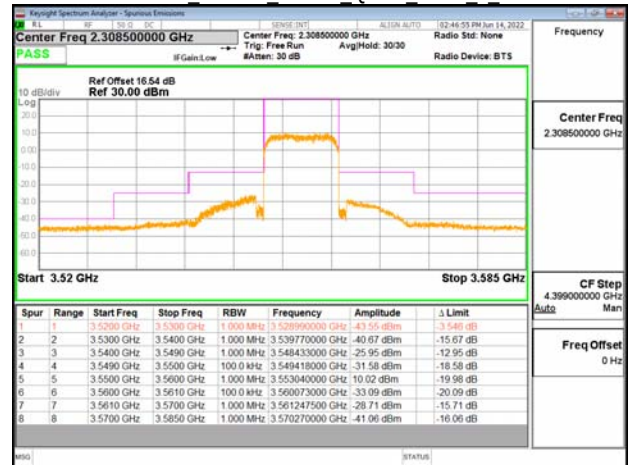
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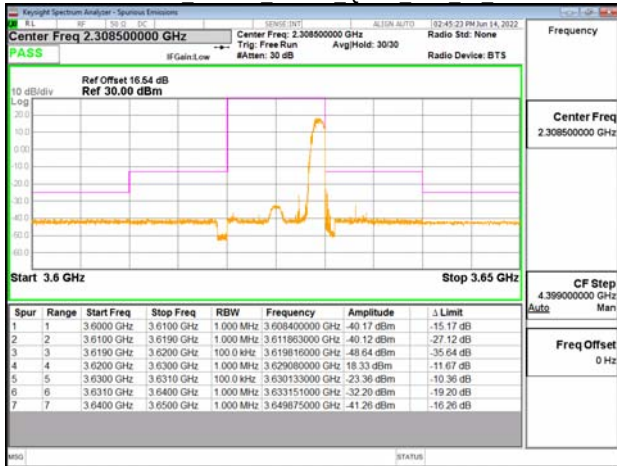
Emission Mask Band48 10MHz QPSK RB1 49 CH55290



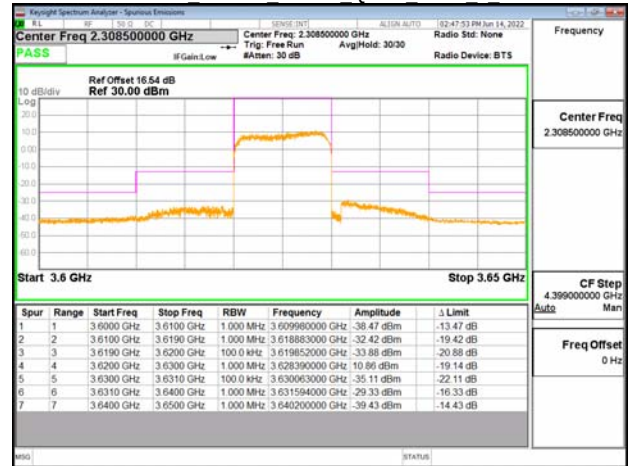
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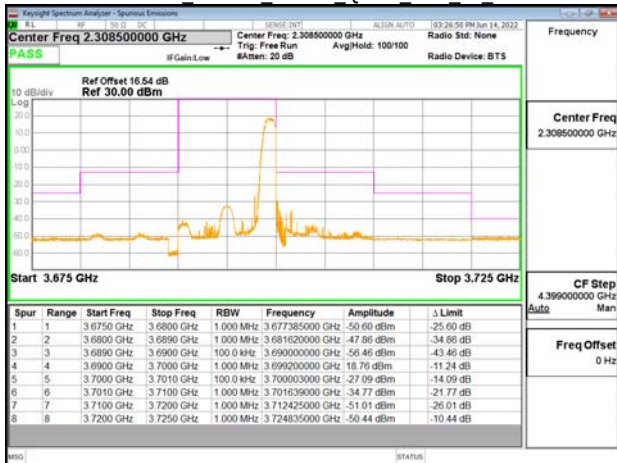
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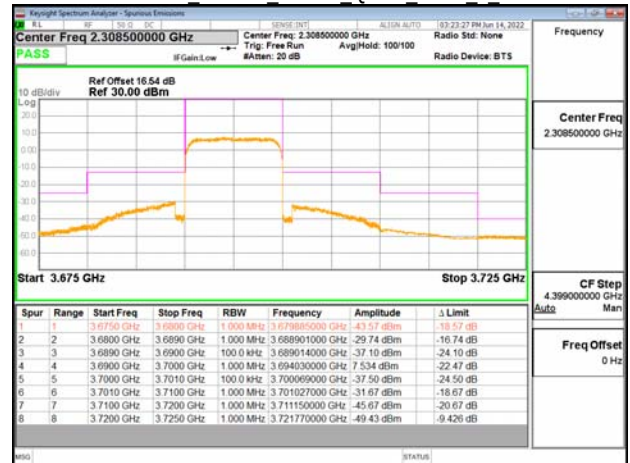
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Emission Mask Band48 10MHz QPSK RB1 49 CH56690



Emission Mask Band48 10MHz QPSK RB50 0 CH56690

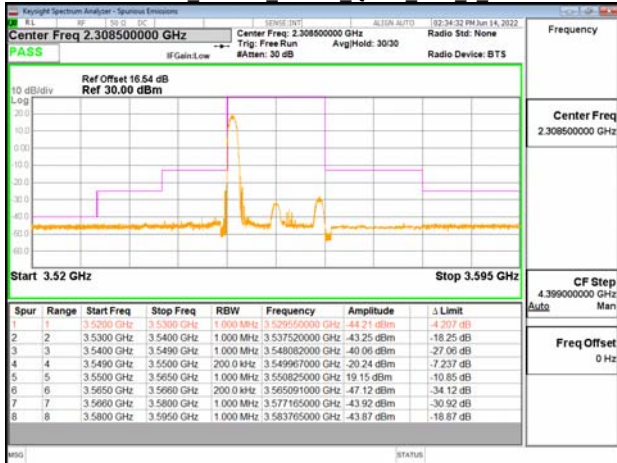


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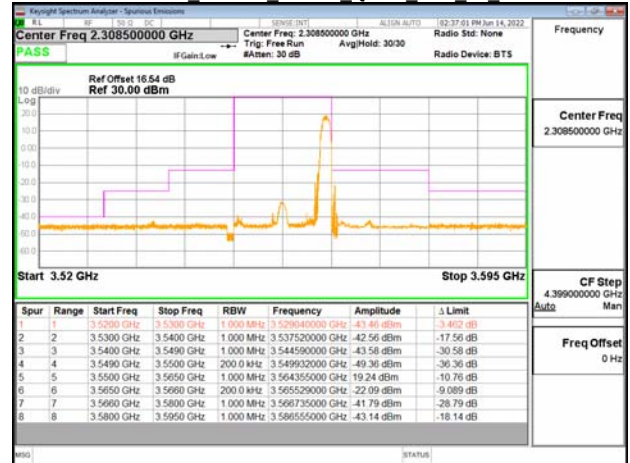
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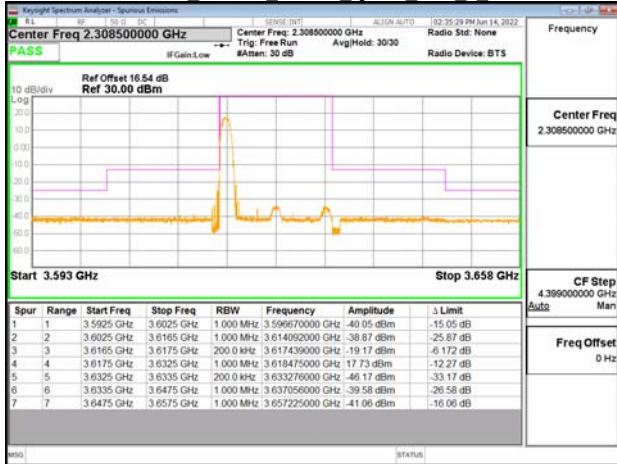
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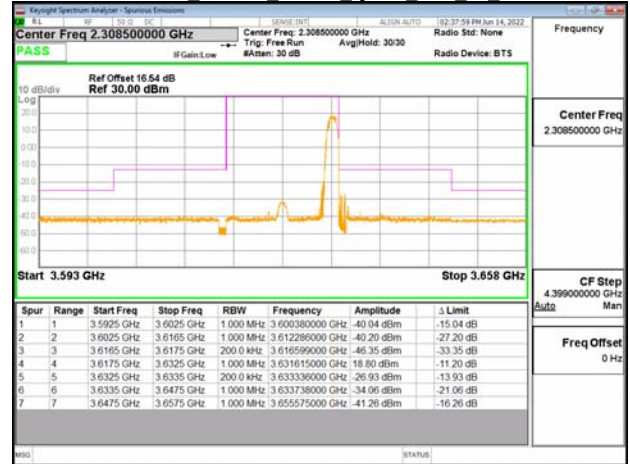
Emission Mask Band48 15MHz QPSK RB1 74 CH55315



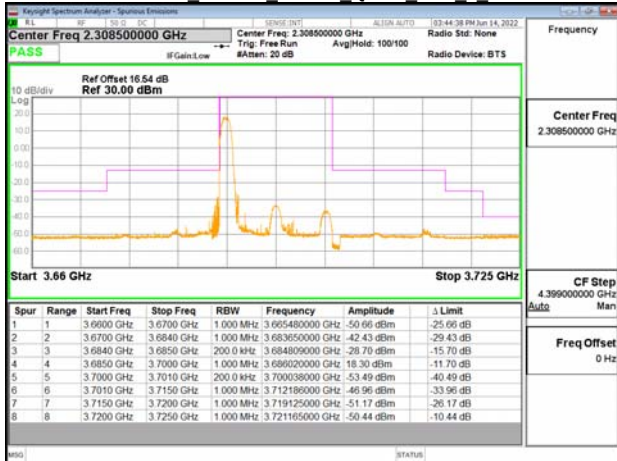
Emission Mask Band48 15MHz QPSK RB1 0 CH55990



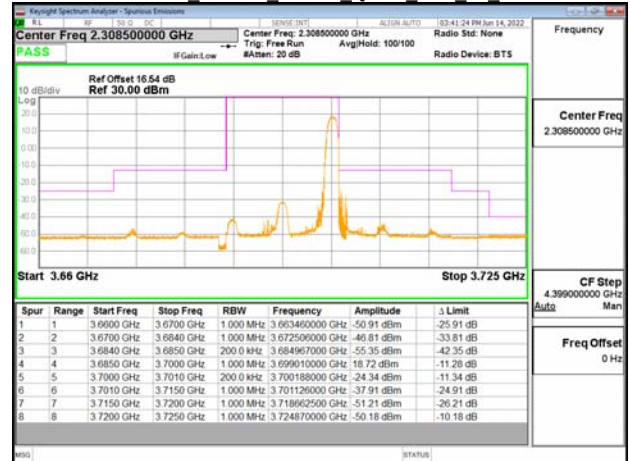
Emission Mask Band48 15MHz QPSK RB1 74 CH55990



Emission Mask Band48 15MHz QPSK RB1 0 CH56665



Emission Mask Band48 15MHz QPSK RB1 74 CH56665



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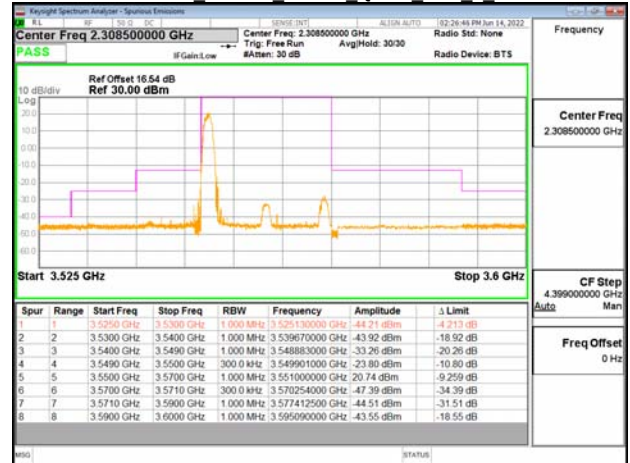
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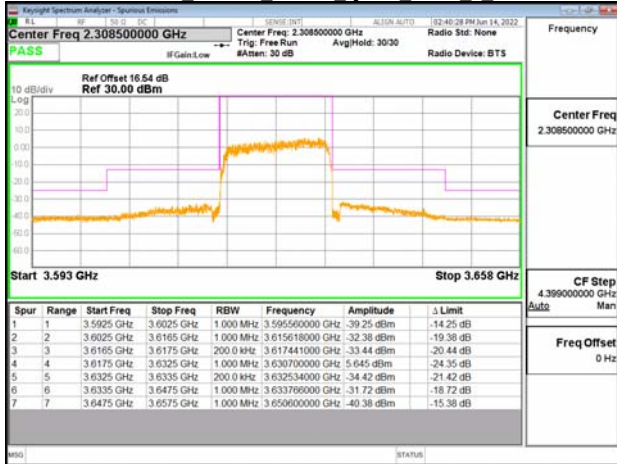
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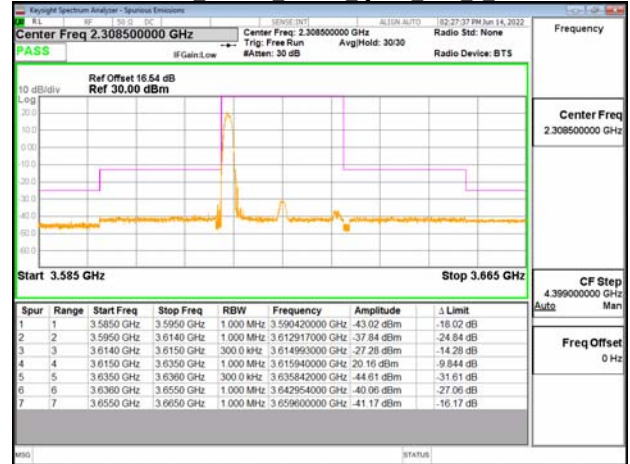
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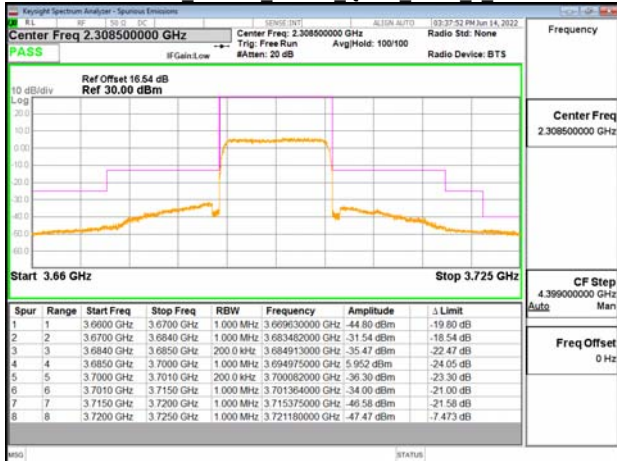
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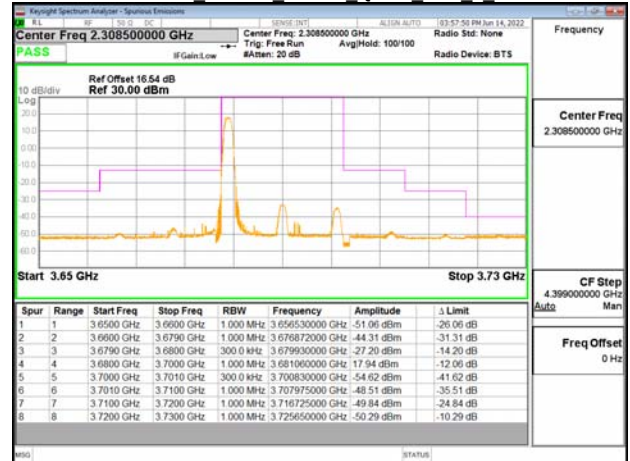
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Emission Mask Band48 15MHz QPSK RB75 0 CH56665



Emission Mask Band48 20MHz QPSK RB1 0 CH56640

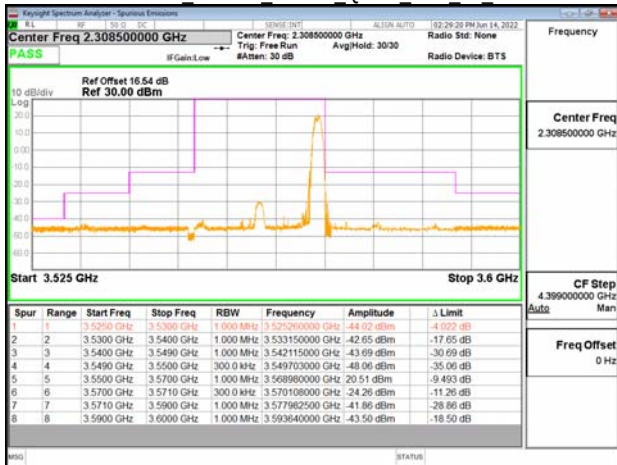


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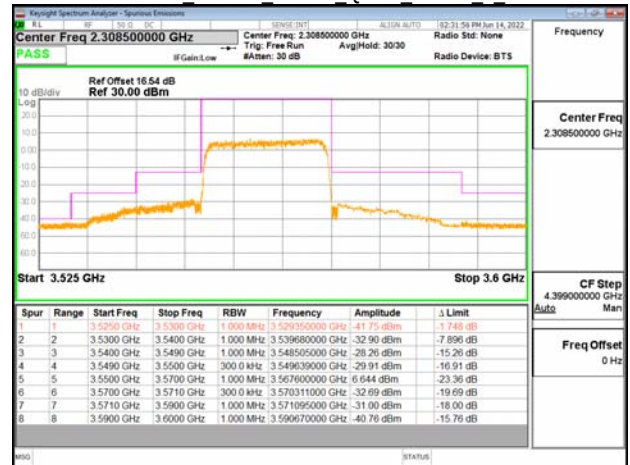
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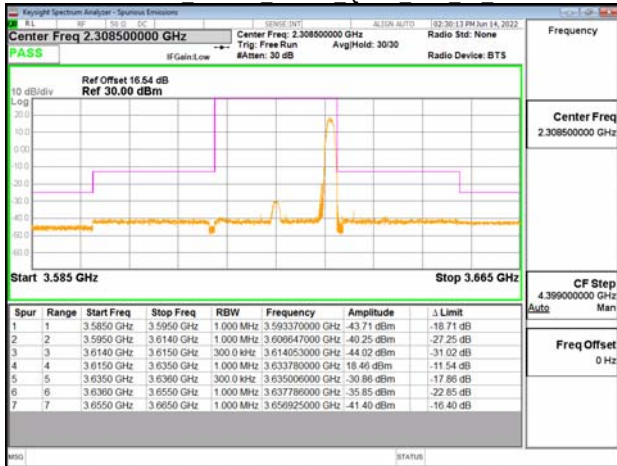
Emission Mask Band48 20MHz QPSK RB1 99 CH55340



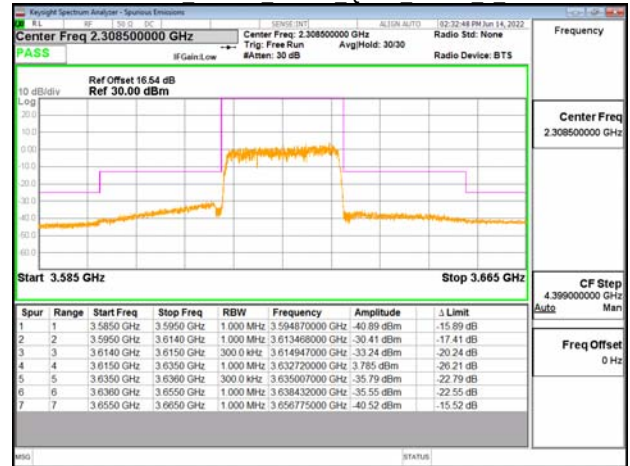
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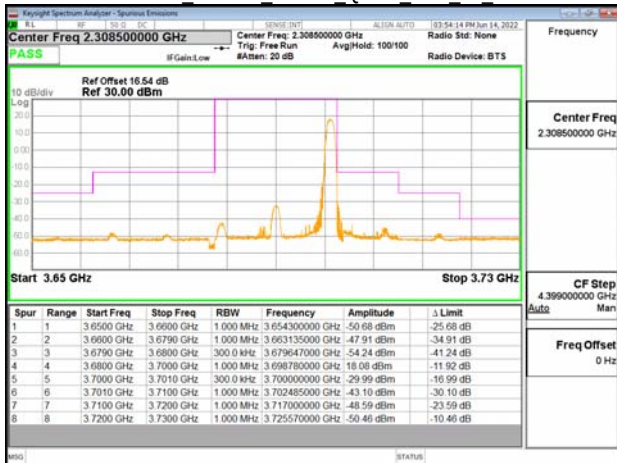
Emission Mask Band48 20MHz QPSK RB1 99 CH55990



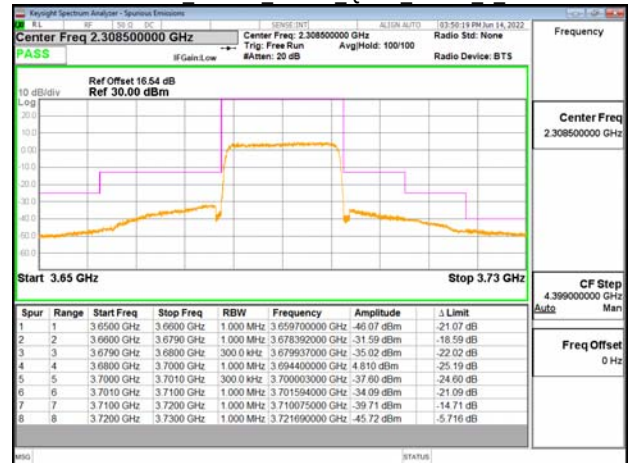
Emission Mask Band48 20MHz QPSK RB100 0 CH55990



Emission Mask Band48 20MHz QPSK RB1 99 CH56640



Emission Mask Band48 20MHz QPSK RB100 0 CH56640



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

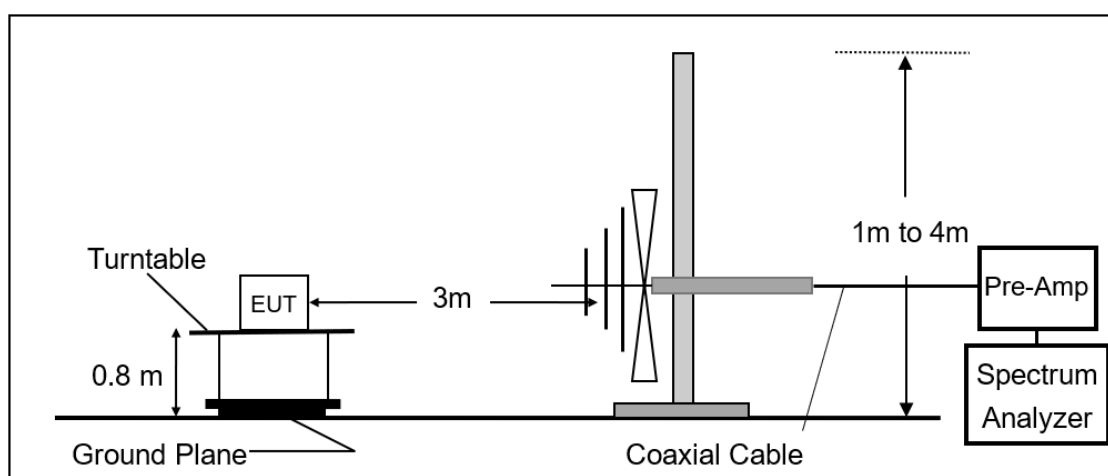
9.1 Standard Applicable

FCC Part 2.1053, Part 96.41 , C63.26 Clause 5.7

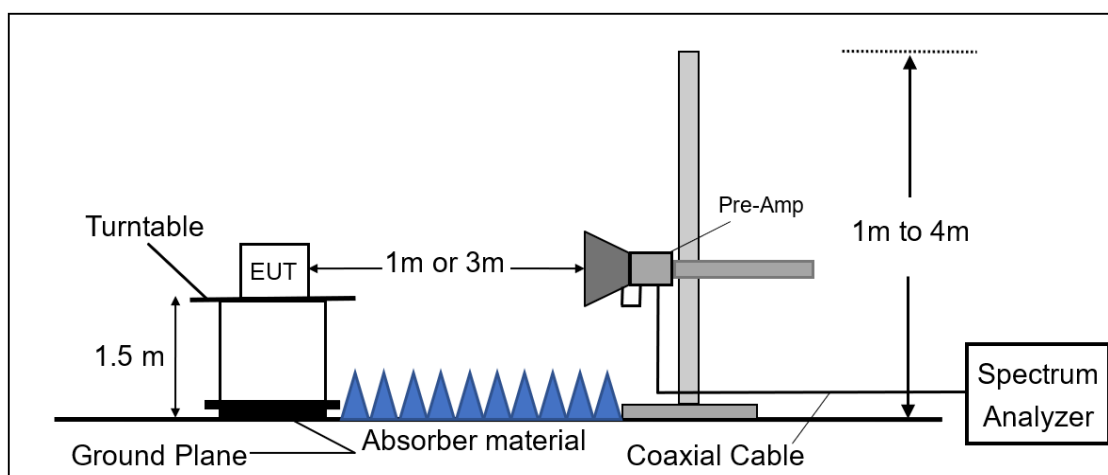
1. within 0 MHz to 10 MHz above and below the **assigned channel** ≤ -13 dBm/MHz
2. greater than 10 MHz above and below the **assigned channel** ≤ -25 dBm/MHz
3. any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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9.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

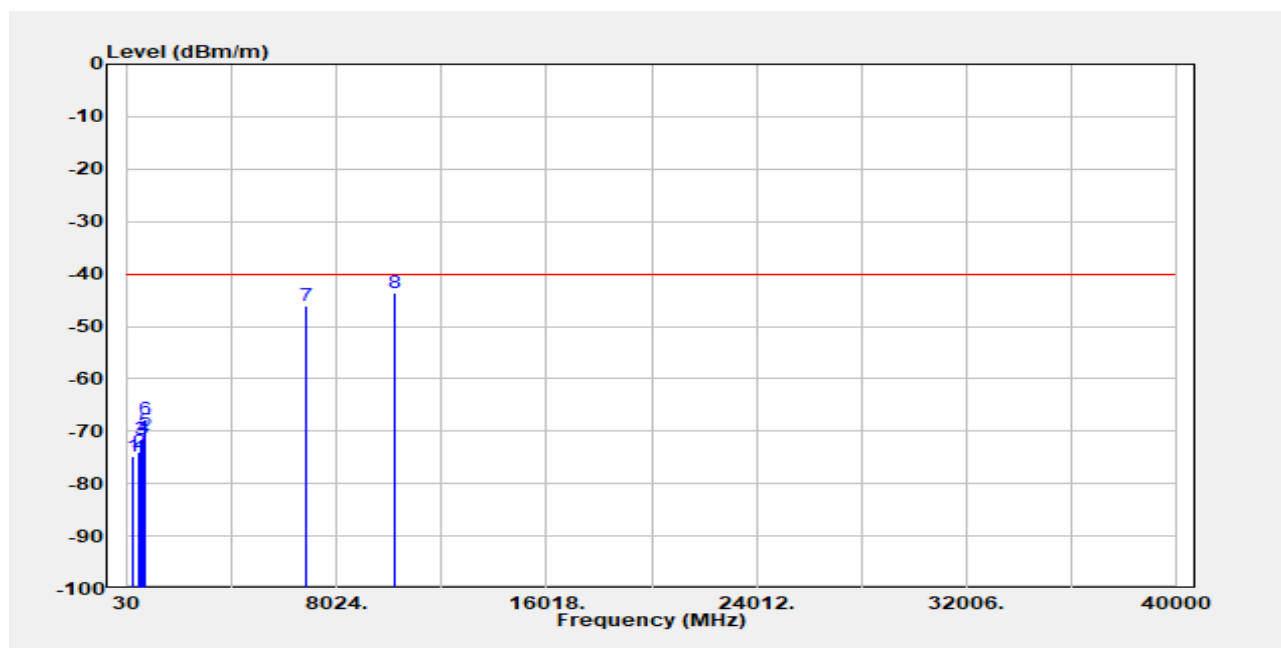
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9.4 Measurement Result:

Report Number :TERF2206000794ER
Operation Mode :LTE B42
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3410 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
233.70	-74.81	-79.98	6.78	-1.61	-40.00	-34.81
476.20	-74.03	-77.98	6.38	-2.43	-40.00	-34.03
547.98	-71.56	-75.80	6.64	-2.40	-40.00	-31.56
612.00	-71.27	-74.74	6.06	-2.59	-40.00	-31.27
658.56	-69.94	-73.82	6.34	-2.46	-40.00	-29.94
727.43	-67.80	-71.21	6.16	-2.75	-40.00	-27.80
6820.00	-45.98	-48.59	12.22	-9.61	-40.00	-5.98
10230.00	-43.76	-43.89	11.57	-11.45	-40.00	-3.76

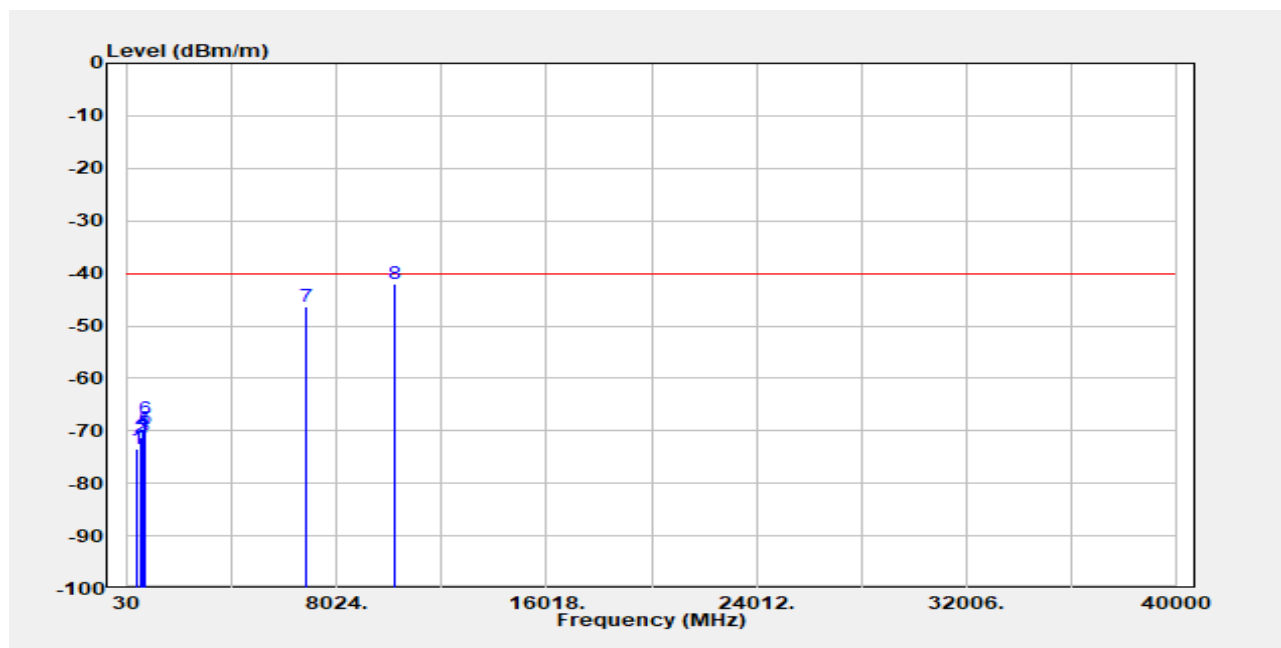
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Report Number :TERF2206000794ER
Operation Mode :LTE B42
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3410 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
399.57	-73.56	-78.03	6.66	-2.19	-40.00	-33.56
536.34	-71.32	-75.66	6.59	-2.24	-40.00	-31.32
589.69	-71.03	-74.46	6.24	-2.81	-40.00	-31.03
627.52	-70.12	-73.68	6.03	-2.47	-40.00	-30.12
699.30	-69.71	-73.04	6.23	-2.90	-40.00	-29.71
718.70	-67.62	-71.35	6.48	-2.75	-40.00	-27.62
6820.00	-46.34	-48.95	12.22	-9.61	-40.00	-6.34
10230.00	-42.04	-42.16	11.57	-11.45	-40.00	-2.04

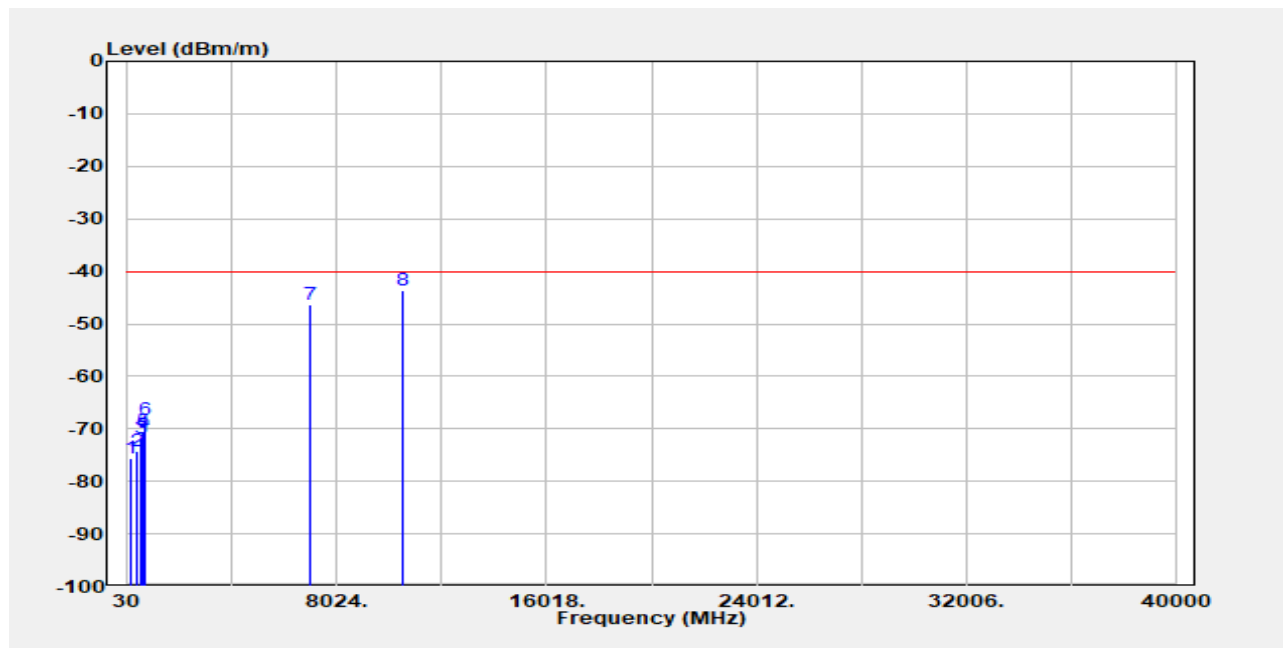
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Report Number :TERF2206000794ER
Operation Mode :LTE B42
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3500 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
158.04	-75.48	-75.22	0.99	-1.25	-40.00	-35.48
420.91	-74.16	-78.74	6.59	-2.01	-40.00	-34.16
538.28	-71.79	-76.07	6.58	-2.29	-40.00	-31.79
590.66	-70.73	-74.17	6.24	-2.80	-40.00	-30.73
654.68	-70.51	-74.10	6.14	-2.55	-40.00	-30.51
728.40	-68.25	-71.62	6.13	-2.76	-40.00	-28.25
7000.00	-46.47	-48.72	11.70	-9.45	-40.00	-6.47
10500.00	-43.74	-44.14	11.20	-10.80	-40.00	-3.74

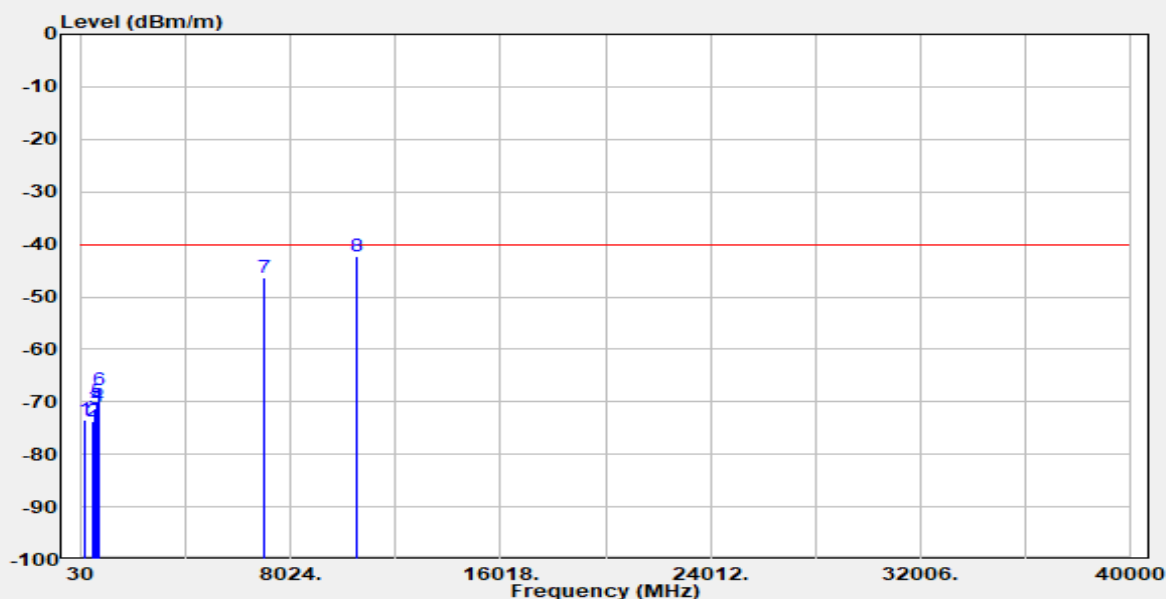
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Report Number :TERF2206000794ER
Operation Mode :LTE B42
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3500 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
130.88	-73.42	-72.69	0.47	-1.19	-40.00	-33.42
431.58	-73.66	-77.97	6.39	-2.08	-40.00	-33.66
545.07	-71.25	-75.52	6.65	-2.38	-40.00	-31.25
628.49	-70.84	-74.39	6.02	-2.47	-40.00	-30.84
651.77	-69.85	-73.34	6.11	-2.61	-40.00	-29.85
711.91	-67.72	-70.85	6.17	-3.04	-40.00	-27.72
7000.00	-46.36	-48.60	11.70	-9.45	-40.00	-6.36
10500.00	-42.27	-42.68	11.20	-10.80	-40.00	-2.27

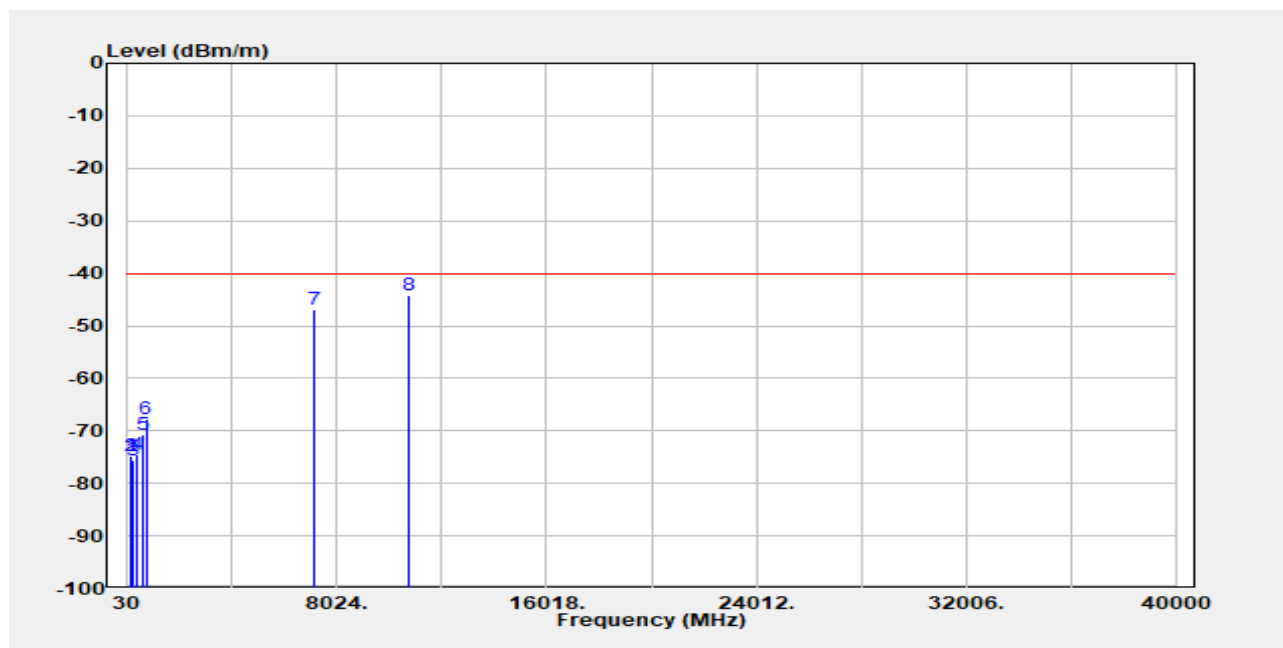
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Report Number :TERF2206000794ER
Operation Mode :LTE B42
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3590 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.97	-74.85	-74.24	0.57	-1.17	-40.00	-34.85
159.98	-74.81	-74.54	1.00	-1.27	-40.00	-34.81
260.86	-75.72	-80.55	6.52	-1.68	-40.00	-35.72
415.09	-74.56	-79.28	6.68	-1.96	-40.00	-34.56
618.79	-70.84	-74.47	6.08	-2.45	-40.00	-30.84
730.34	-67.88	-71.20	6.09	-2.76	-40.00	-27.88
7180.00	-47.01	-48.43	10.98	-9.56	-40.00	-7.01
10770.00	-44.04	-43.45	11.03	-11.62	-40.00	-4.04

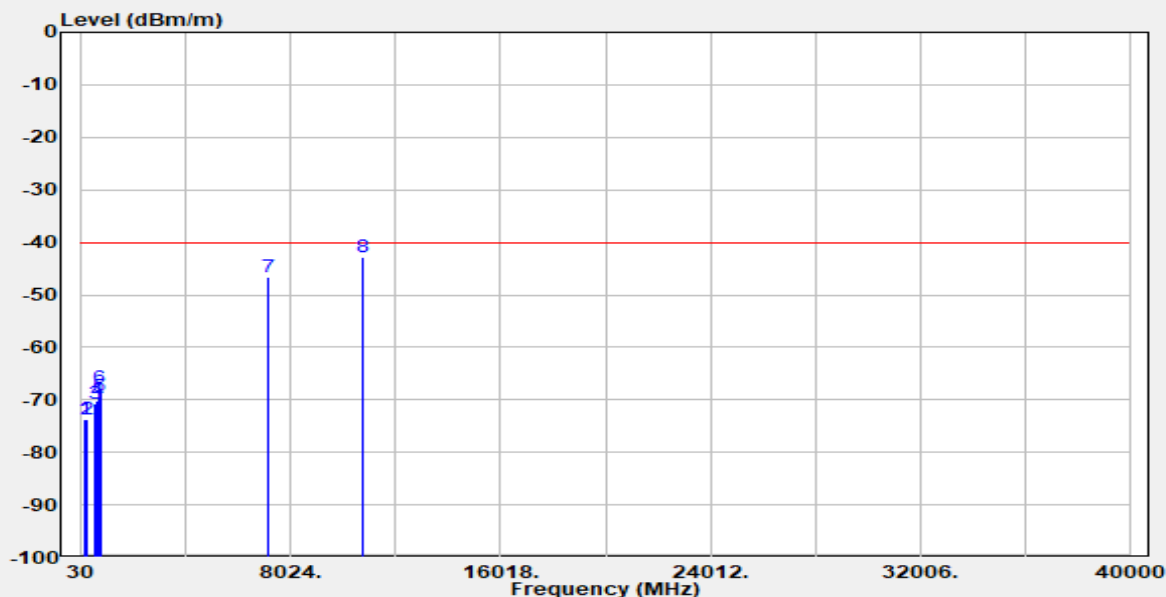
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Report Number :TERF2206000794ER
Operation Mode :LTE B42
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3590 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-73.74	-73.23	0.66	-1.16	-40.00	-33.74
197.81	-73.82	-78.68	6.33	-1.46	-40.00	-33.82
543.13	-70.77	-75.03	6.62	-2.36	-40.00	-30.77
633.34	-70.30	-73.89	5.99	-2.40	-40.00	-30.30
699.30	-69.39	-72.73	6.23	-2.90	-40.00	-29.39
729.37	-67.81	-71.15	6.11	-2.77	-40.00	-27.81
7180.00	-46.65	-48.07	10.98	-9.56	-40.00	-6.65
10770.00	-42.79	-42.20	11.03	-11.62	-40.00	-2.79

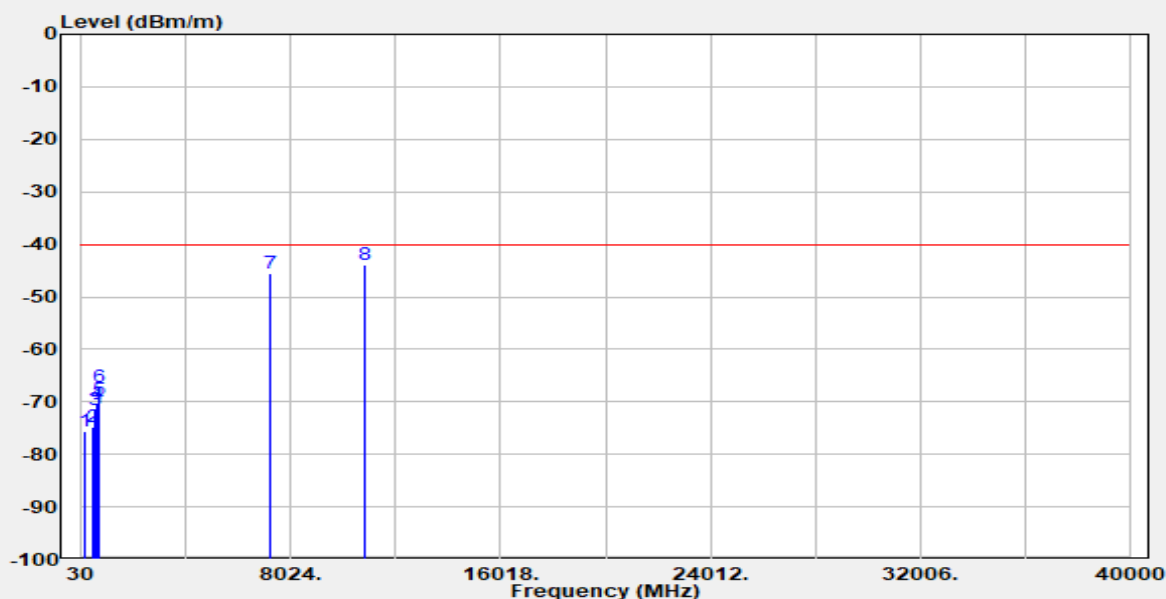
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Report Number :TERF2206000794ER
Operation Mode :LTE B43
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3610 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
163.86	-75.50	-75.53	1.31	-1.28	-40.00	-35.50
426.73	-74.82	-79.31	6.52	-2.03	-40.00	-34.82
554.77	-71.63	-75.69	6.61	-2.55	-40.00	-31.63
633.34	-70.44	-74.03	5.99	-2.40	-40.00	-30.44
679.90	-69.73	-73.27	6.47	-2.93	-40.00	-29.73
725.49	-67.23	-70.71	6.22	-2.74	-40.00	-27.23
7220.00	-45.54	-46.46	10.90	-9.98	-40.00	-5.54
10830.00	-43.99	-43.09	10.94	-11.84	-40.00	-3.99

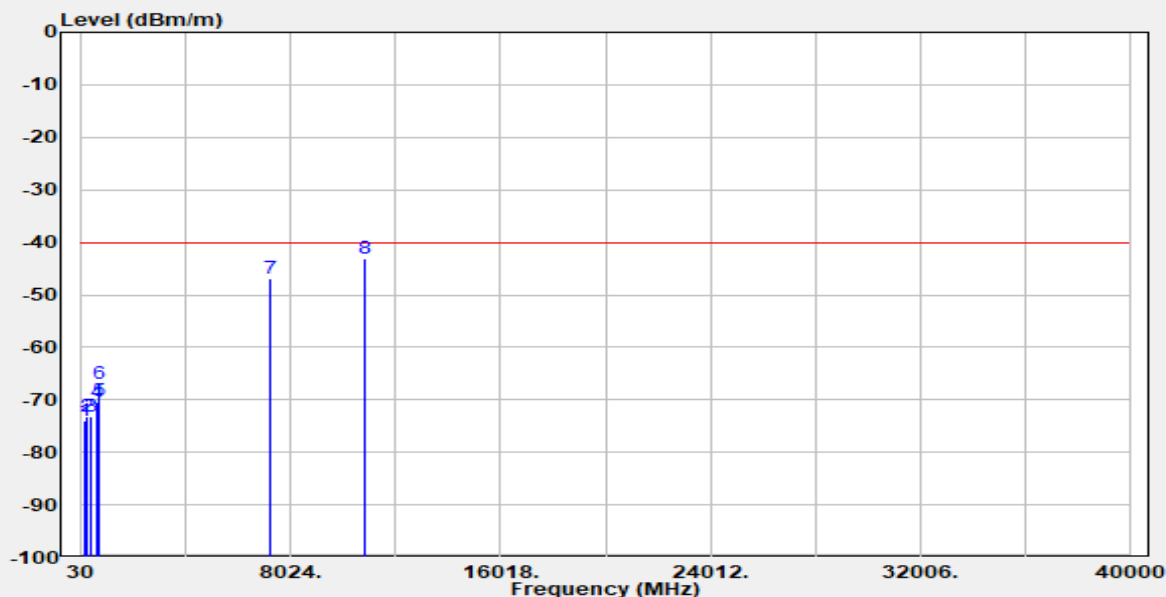
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Report Number :TERF2206000794ER
Operation Mode :LTE B43
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3610 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.00	-74.06	-73.39	0.50	-1.17	-40.00	-34.06
197.81	-73.29	-78.16	6.33	-1.46	-40.00	-33.29
402.48	-73.18	-77.73	6.67	-2.12	-40.00	-33.18
633.34	-70.46	-74.05	5.99	-2.40	-40.00	-30.46
679.90	-70.29	-73.83	6.47	-2.93	-40.00	-30.29
716.76	-66.89	-70.39	6.34	-2.83	-40.00	-26.89
7220.00	-46.95	-47.87	10.90	-9.98	-40.00	-6.95
10830.00	-42.99	-42.09	10.94	-11.84	-40.00	-2.99

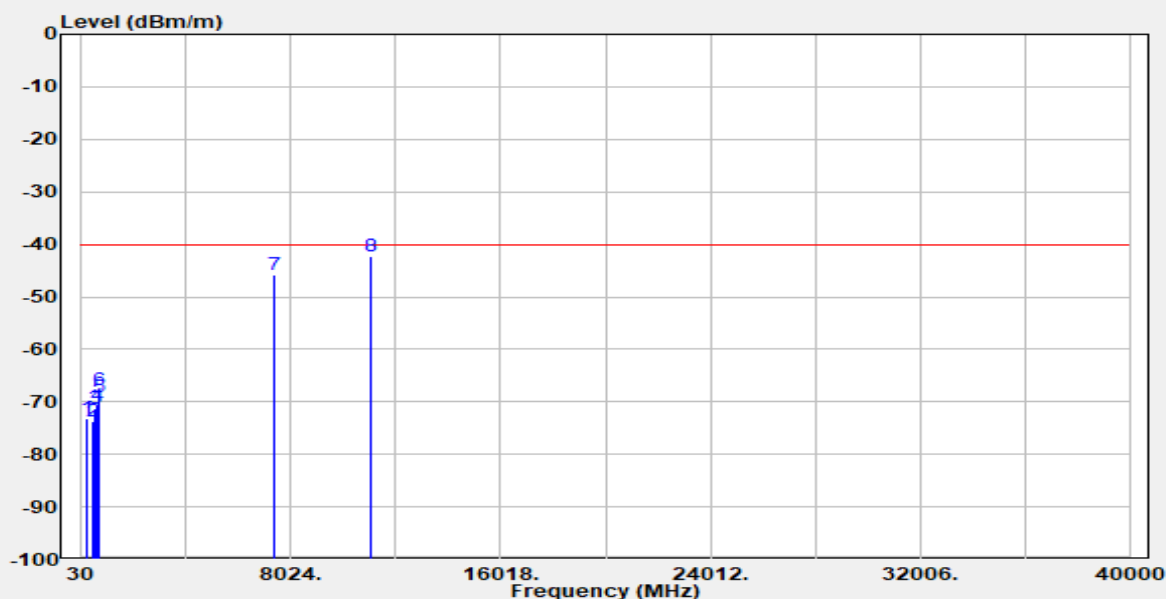
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Report Number :TERF2206000794ER
Operation Mode :LTE B43
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3700 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
203.63	-73.14	-78.28	6.63	-1.48	-40.00	-33.14
468.44	-73.81	-77.78	6.34	-2.36	-40.00	-33.81
540.22	-71.19	-75.43	6.57	-2.34	-40.00	-31.19
619.76	-70.73	-74.37	6.07	-2.43	-40.00	-30.73
693.48	-69.22	-72.45	6.27	-3.04	-40.00	-29.22
723.55	-67.65	-71.26	6.33	-2.72	-40.00	-27.65
7400.00	-45.74	-47.37	11.10	-9.48	-40.00	-5.74
11100.00	-42.36	-41.54	11.10	-11.92	-40.00	-2.36

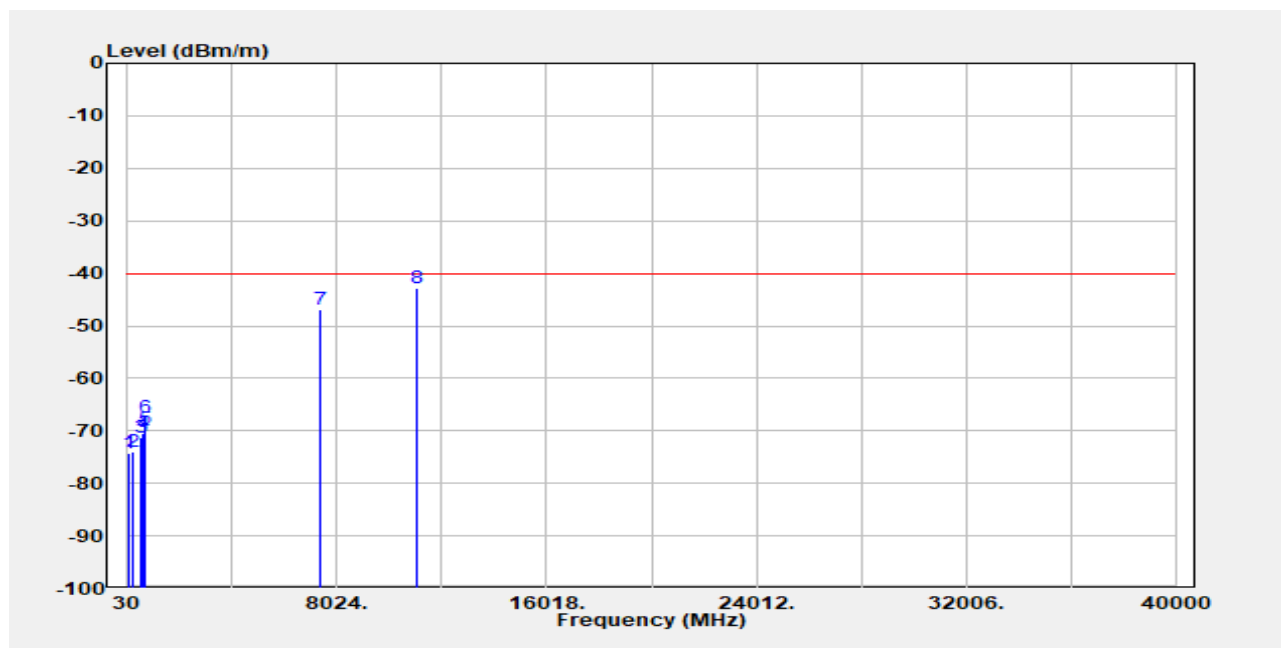
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Report Number :TERF2206000794ER
Operation Mode :LTE B43
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3700 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-74.15	-74.07	0.99	-1.07	-40.00	-34.15
197.81	-74.10	-78.97	6.33	-1.46	-40.00	-34.10
555.74	-71.22	-75.25	6.61	-2.58	-40.00	-31.22
629.46	-70.36	-73.90	6.01	-2.48	-40.00	-30.36
685.72	-69.71	-73.00	6.33	-3.05	-40.00	-29.71
720.64	-67.58	-71.41	6.53	-2.70	-40.00	-27.58
7400.00	-46.95	-48.58	11.10	-9.48	-40.00	-6.95
11100.00	-42.75	-41.94	11.10	-11.92	-40.00	-2.75

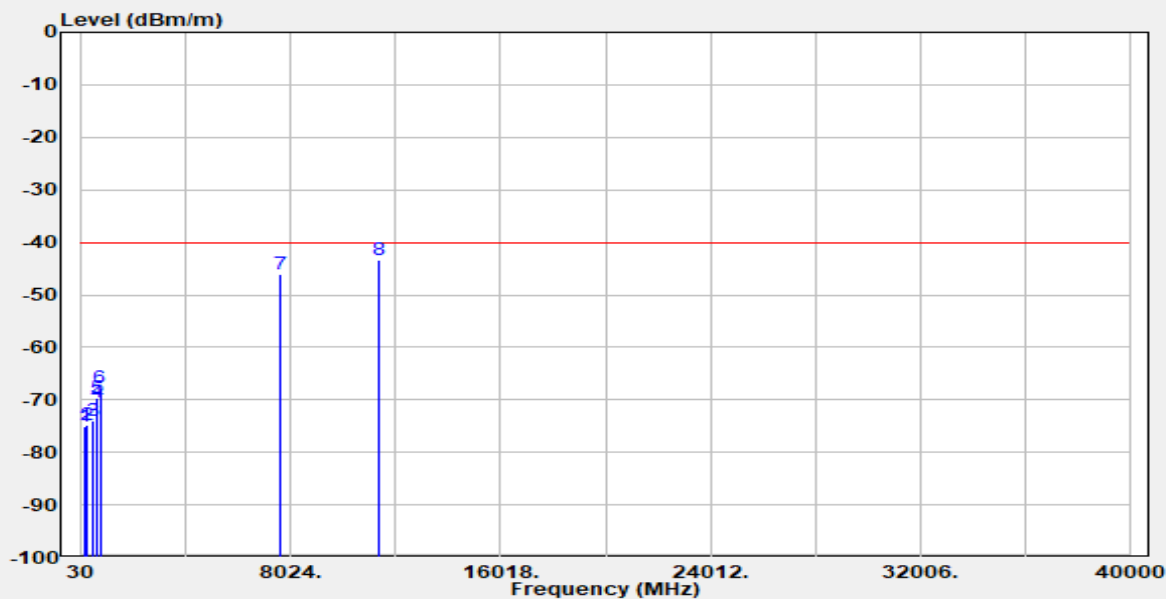
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Report Number :TERF2206000794ER
Operation Mode :LTE B43
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3790 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
162.89	-75.02	-74.99	1.25	-1.28	-40.00	-35.02
244.37	-74.82	-79.58	6.41	-1.65	-40.00	-34.82
476.20	-73.87	-77.82	6.38	-2.43	-40.00	-33.87
626.55	-70.34	-73.91	6.03	-2.46	-40.00	-30.34
635.28	-69.67	-73.29	5.98	-2.36	-40.00	-29.67
729.37	-67.84	-71.18	6.11	-2.77	-40.00	-27.84
7580.00	-46.14	-47.51	11.26	-9.89	-40.00	-6.14
11370.00	-43.33	-42.50	11.43	-12.25	-40.00	-3.33

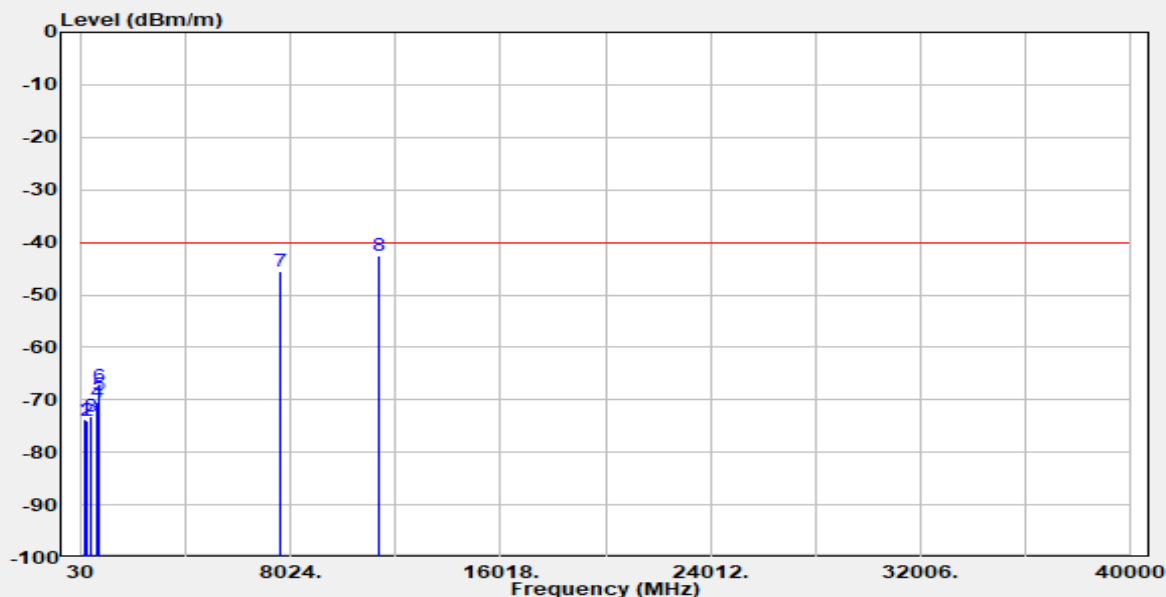
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Report Number :TERF2206000794ER
Operation Mode :LTE B43
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3790 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
131.85	-73.85	-73.08	0.44	-1.21	-40.00	-33.85
200.72	-73.92	-79.01	6.56	-1.47	-40.00	-33.92
397.63	-73.23	-77.68	6.61	-2.16	-40.00	-33.23
628.49	-70.34	-73.88	6.02	-2.47	-40.00	-30.34
680.87	-69.04	-72.54	6.45	-2.95	-40.00	-29.04
728.40	-67.50	-70.88	6.13	-2.76	-40.00	-27.50
7580.00	-45.47	-46.84	11.26	-9.89	-40.00	-5.47
11370.00	-42.63	-41.81	11.43	-12.25	-40.00	-2.63

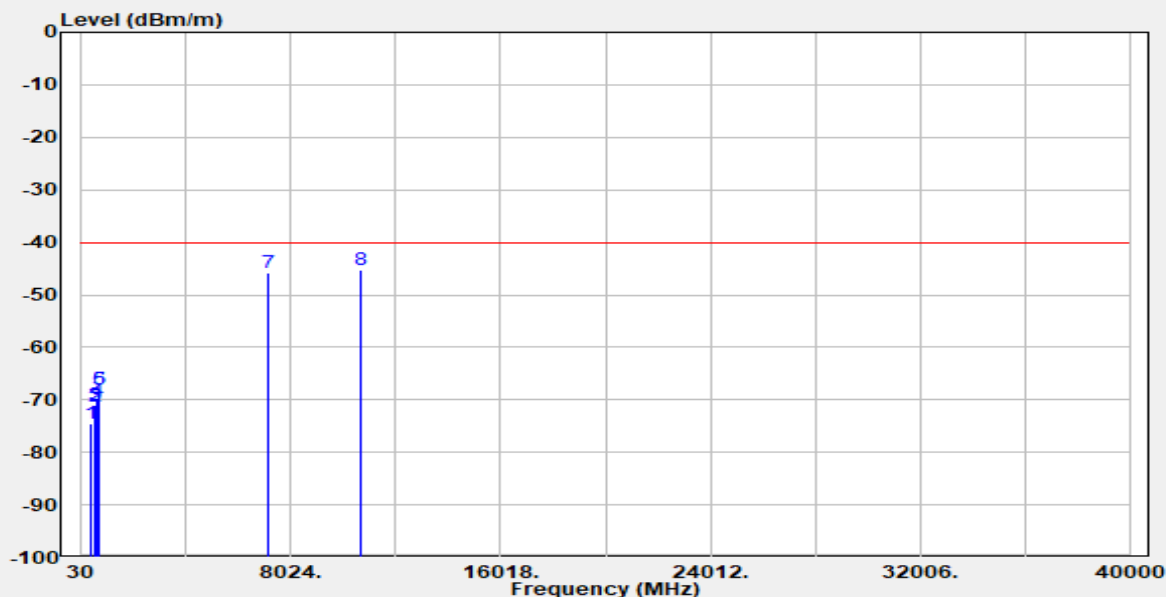
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Report Number :TERF2206000794ER
Operation Mode :LTE B48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3560 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
404.42	-74.44	-79.04	6.67	-2.07	-40.00	-34.44
540.22	-71.40	-75.63	6.57	-2.34	-40.00	-31.40
568.35	-71.13	-74.96	6.52	-2.68	-40.00	-31.13
579.99	-70.24	-73.72	6.29	-2.81	-40.00	-30.24
703.18	-67.93	-71.24	6.26	-2.96	-40.00	-27.93
719.67	-68.11	-71.95	6.55	-2.71	-40.00	-28.11
7120.00	-45.76	-46.70	11.22	-10.27	-40.00	-5.76
10680.00	-45.13	-44.54	11.10	-11.69	-40.00	-5.13

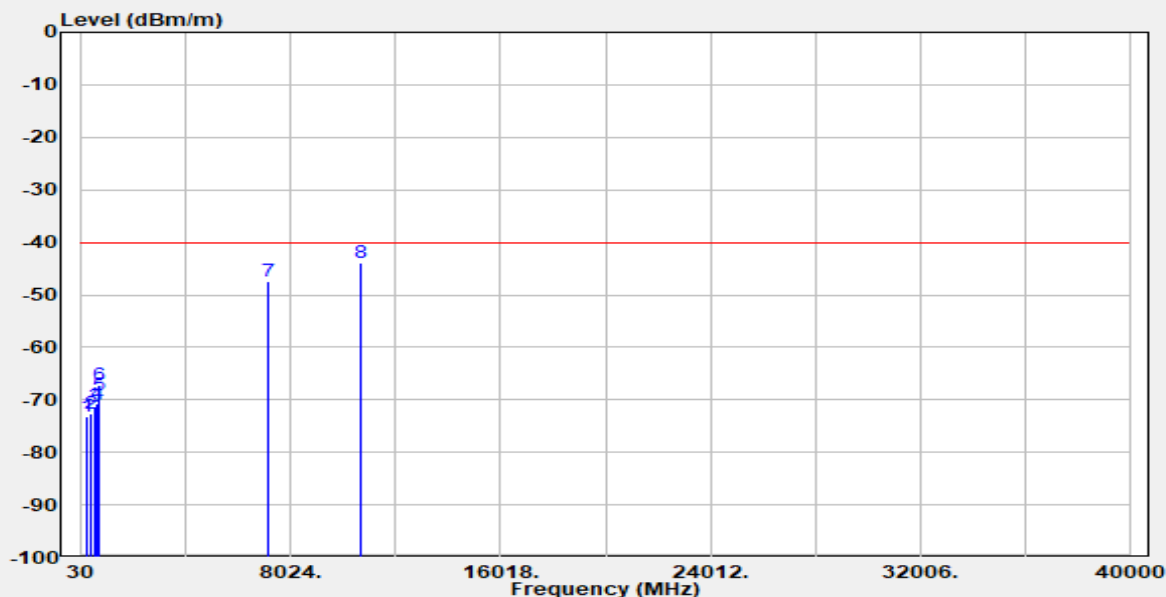
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Report Number :TERF2206000794ER
Operation Mode :LTE B48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3560 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
200.72	-73.28	-78.37	6.56	-1.47	-40.00	-33.28
386.96	-72.53	-77.10	6.64	-2.07	-40.00	-32.53
565.44	-71.34	-75.12	6.47	-2.69	-40.00	-31.34
633.34	-70.61	-74.20	5.99	-2.40	-40.00	-30.61
692.51	-69.20	-72.42	6.28	-3.07	-40.00	-29.20
728.40	-67.34	-70.71	6.13	-2.76	-40.00	-27.34
7120.00	-47.38	-48.32	11.22	-10.27	-40.00	-7.38
10680.00	-43.89	-43.30	11.10	-11.69	-40.00	-3.89

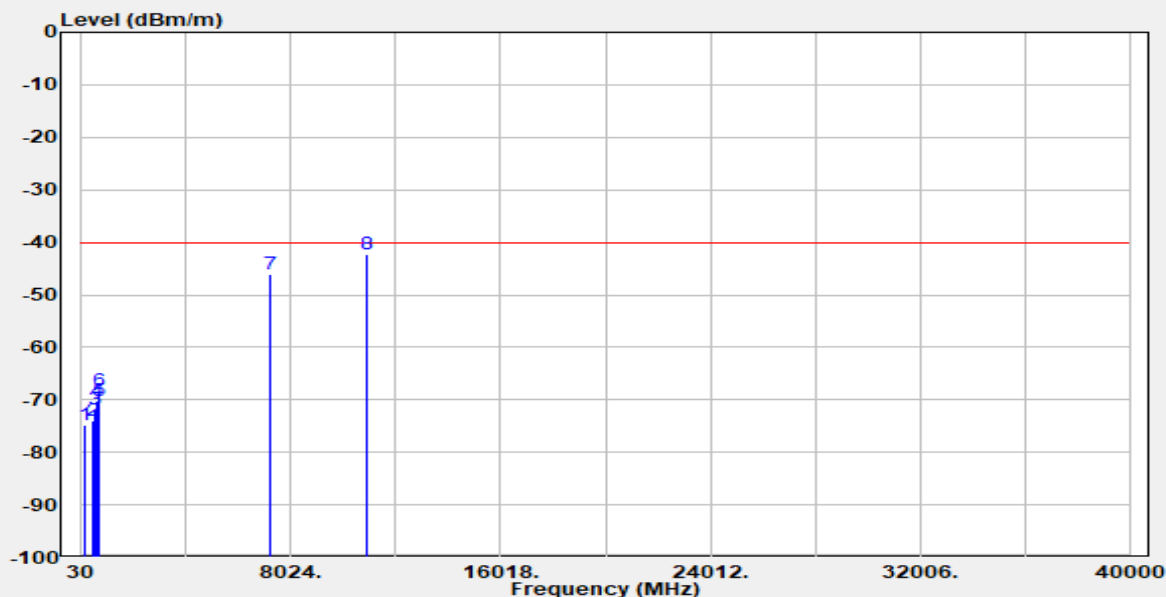
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Report Number :TERF2206000794ER
Operation Mode :LTE B48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3625 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
164.83	-74.73	-74.81	1.36	-1.29	-40.00	-34.73
431.58	-73.97	-78.28	6.39	-2.08	-40.00	-33.97
512.09	-71.83	-76.15	6.47	-2.15	-40.00	-31.83
623.64	-70.28	-73.88	6.05	-2.45	-40.00	-30.28
688.63	-70.18	-73.38	6.31	-3.10	-40.00	-30.18
718.70	-68.26	-71.99	6.48	-2.75	-40.00	-28.26
7250.00	-46.07	-47.31	10.90	-9.66	-40.00	-6.07
10875.00	-42.21	-41.67	10.85	-11.39	-40.00	-2.21

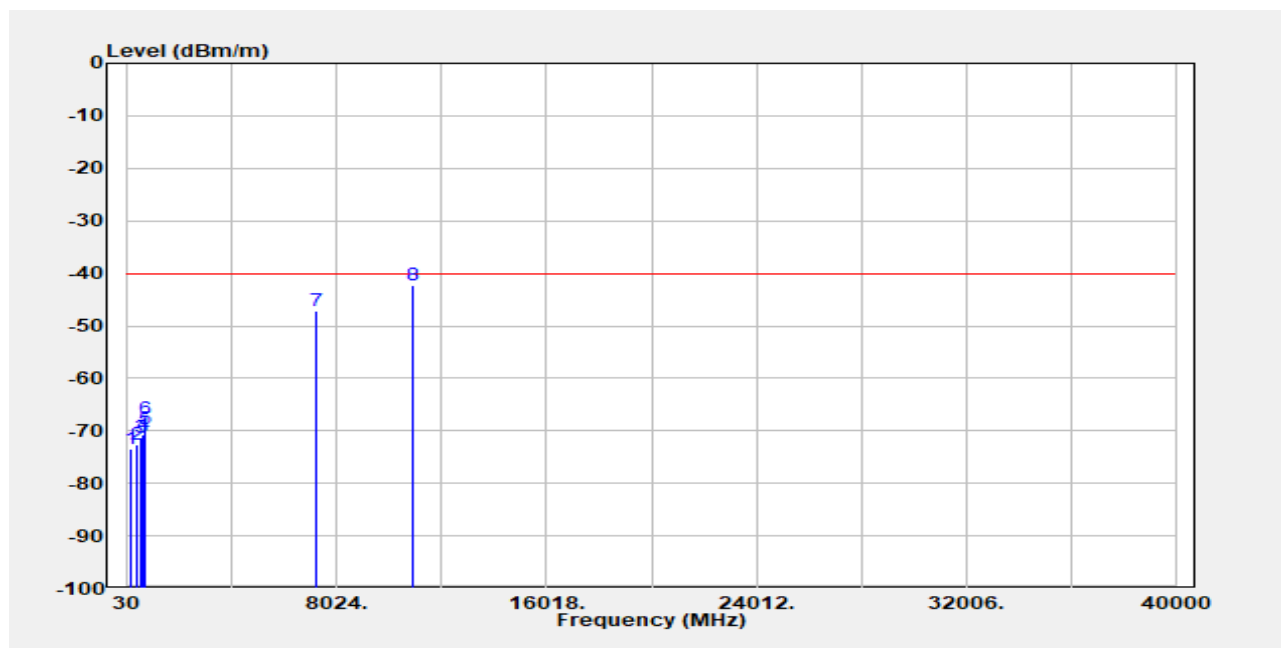
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Report Number :TERF2206000794ER
Operation Mode :LTE B48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3625 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
147.37	-73.32	-72.67	0.55	-1.20	-40.00	-33.32
410.24	-72.72	-77.48	6.68	-1.92	-40.00	-32.72
574.17	-71.27	-74.98	6.44	-2.73	-40.00	-31.27
632.37	-70.64	-74.20	6.00	-2.43	-40.00	-30.64
698.33	-69.73	-73.04	6.24	-2.92	-40.00	-29.73
723.55	-67.85	-71.45	6.33	-2.72	-40.00	-27.85
7250.00	-47.08	-48.33	10.90	-9.66	-40.00	-7.08
10875.00	-42.25	-41.71	10.85	-11.39	-40.00	-2.25

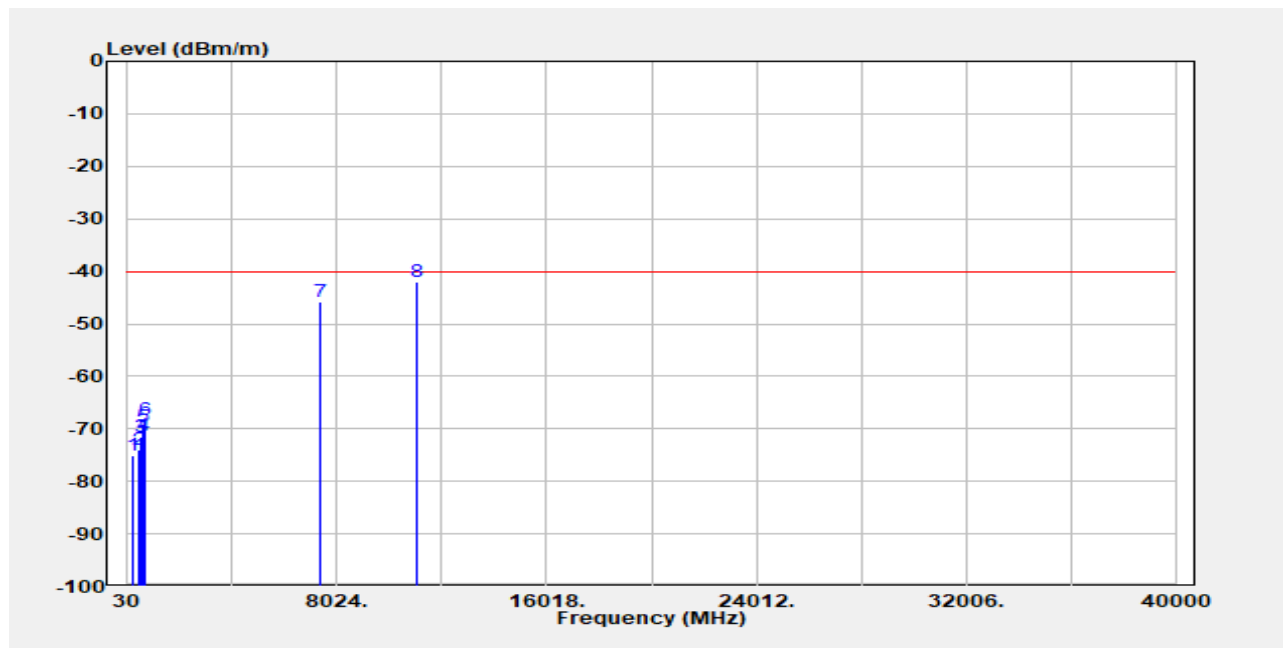
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Report Number :TERF2206000794ER
Operation Mode :LTE B48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3690 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
241.46	-74.93	-79.71	6.42	-1.65	-40.00	-34.93
437.40	-74.08	-78.21	6.34	-2.21	-40.00	-34.08
547.98	-71.44	-75.68	6.64	-2.40	-40.00	-31.44
587.75	-71.14	-74.59	6.25	-2.81	-40.00	-31.14
631.40	-69.65	-73.21	6.00	-2.45	-40.00	-29.65
722.58	-68.24	-71.93	6.39	-2.71	-40.00	-28.24
7380.00	-45.89	-47.61	11.06	-9.34	-40.00	-5.89
11070.00	-41.91	-41.18	11.01	-11.73	-40.00	-1.91

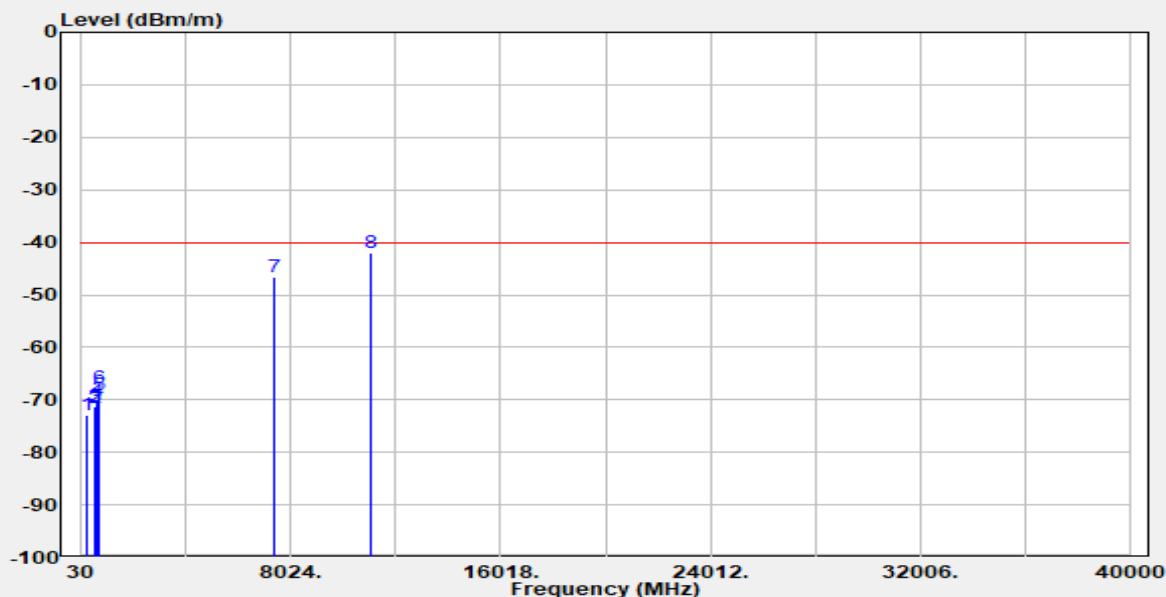
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Report Number :TERF2206000794ER
Operation Mode :LTE B48
Test Mode :Tx
EUT Pol :H Plane
Test Frequency :3690 MHz

Test Site :SAC 1
Test Date :2022-06-16
Temp./Humi. :24.3/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
199.75	-73.01	-78.06	6.51	-1.46	-40.00	-33.01
526.64	-71.53	-75.91	6.52	-2.14	-40.00	-31.53
570.29	-71.16	-75.01	6.53	-2.68	-40.00	-31.16
639.16	-70.33	-74.09	6.04	-2.27	-40.00	-30.33
694.45	-69.08	-72.33	6.27	-3.02	-40.00	-29.08
728.40	-67.62	-70.99	6.13	-2.76	-40.00	-27.62
7380.00	-46.50	-48.21	11.06	-9.34	-40.00	-6.50
11070.00	-42.00	-41.27	11.01	-11.73	-40.00	-2.00

~ End of Report ~

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