

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: ASUSTeK COMPUTER INC.
1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Manufacturer: ASUSTeK COMPUTER INC.
1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Product Name: ASUS Phone (Mobile Phone)

Brand Name: ASUS

Model No.: ASUS_AI2302

Report Number: TERF2305001077ER

FCC ID MSQA12302

Issue Date: July 17, 2023

Date of Test: May 03, 2023 ~ July 06, 2023

Date of EUT Received: April 24, 2023

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 , 22H & 24E & 27 C & 90S.

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

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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2305001077ER	00	Original.	July 17, 2023	Tiffany Kao	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_AI2302
Hardware Version:	N/A
Firmware Version:	WW_33.0204.0204.57
EUT Series No.:	R4AIB7N00566GZ3
Power Supply:	3.89 Vdc from Battery or 5 / 9 / 12 / 15 / 20 Vdc from AC Adapter
Test Software (Name/Version)	Default

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1.2 Operation Frequency Range

Intra-Band:

LTE Band 2C		LTE Band 41C	
BW (MHz)	Operation Frequency (MHz)	BW (MHz)	Operation Frequency (MHz)
25	1862.5 - 1897.5	25	2508.5 - 2677.5
30	1865.0 - 1895.0	30	2511.0 - 2675.0
35	1867.5 - 1892.5	35	2513.5 - 2672.5
40	1870.0 - 1890.0	40	2516.0 - 2670.0

Inter-Band:

Support Combination				
2A_4A	2A_5A	2A_12A	2A_30A	2A_66A
4A_12A	4A_30A	5A_30A	12A_30A	12A_66A

1.3 Antenna Designation

Antenna Type	Antenna Model No.
PIFA	Ant1
	Ant2
	Ant3
	Ant4

Note: Transmission in frequencies in this test report are only available by the above antenna(s).

Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)			
				Ant1	Ant2	Ant3	Ant4
LTE-Band 2C	1850	~	1910	-6.05	-3.6		-3.16
LTE-Band 41C	2496	~	2690		-0.35		-2.03

Note: Antenna information is provided by the applicant.

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1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

1.4.1 Intra-Band

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
2C	25	QPSK	20.26	EIRP	0.106	23.2540	23M3G7D
		16QAM	19.42	EIRP	0.087	23.2070	23M2D7W
		64QAM	18.20	EIRP	0.066	23.1940	23M2D7W
		256QAM	15.33	EIRP	0.034	23.1970	23M2D7W
2C	30	QPSK	20.04	EIRP	0.101	28.4480	28M4D7W
		16QAM	19.39	EIRP	0.087	28.4450	28M4D7W
		64QAM	18.47	EIRP	0.070	28.4040	28M4D7W
		256QAM	15.29	EIRP	0.034	28.3850	28M4D7W
2C	35	QPSK	19.95	EIRP	0.099	32.7720	32M8D7W
		16QAM	19.11	EIRP	0.081	32.7600	32M8D7W
		64QAM	18.24	EIRP	0.067	32.6980	32M7D7W
		256QAM	15.27	EIRP	0.034	32.7450	32M7D7W
2C	40	QPSK	20.01	EIRP	0.100	37.7290	37M7D7W
		16QAM	19.00	EIRP	0.079	37.6710	37M7D7W
		64QAM	17.84	EIRP	0.061	37.7440	37M7D7W
		256QAM	15.18	EIRP	0.033	37.6800	37M7D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
41C	25	QPSK	23.99	EIRP	0.251	22.9710	23M0G7D
		16QAM	23.18	EIRP	0.208	22.9150	22M9D7W
		64QAM	22.27	EIRP	0.169	22.9490	22M9D7W
		256QAM	19.19	EIRP	0.083	22.9430	22M9D7W
41C	30	QPSK	23.94	EIRP	0.248	28.3810	28M4D7W
		16QAM	22.90	EIRP	0.195	28.3960	28M4D7W
		64QAM	22.14	EIRP	0.164	28.3930	28M4D7W
		256QAM	19.01	EIRP	0.080	28.4210	28M4D7W
41C	35	QPSK	23.81	EIRP	0.240	32.7160	32M7D7W
		16QAM	22.82	EIRP	0.191	32.7380	32M7D7W
		64QAM	22.10	EIRP	0.162	32.7370	32M7D7W
		256QAM	18.99	EIRP	0.079	32.7310	32M7D7W
41C	40	QPSK	23.76	EIRP	0.238	37.7260	37M7D7W
		16QAM	22.80	EIRP	0.191	37.6230	37M6D7W
		64QAM	21.83	EIRP	0.152	37.6420	37M6D7W
		256QAM	18.96	EIRP	0.079	37.6540	37M7D7W

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90.
 ANSI C63.26-2015
 KDB971168 D01 Power Meas license Digital System v03r01
 KDB412172 D01 Determining ERP and EIRP v01r01

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation 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 2		
		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	TW3702
		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*6m*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 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.

2.5 Final Amplifier Voltage and Current Information:

LTE CA Band 2C

Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 2C 20M+20M QPSK	3.89	428

LTE CA Band 41C

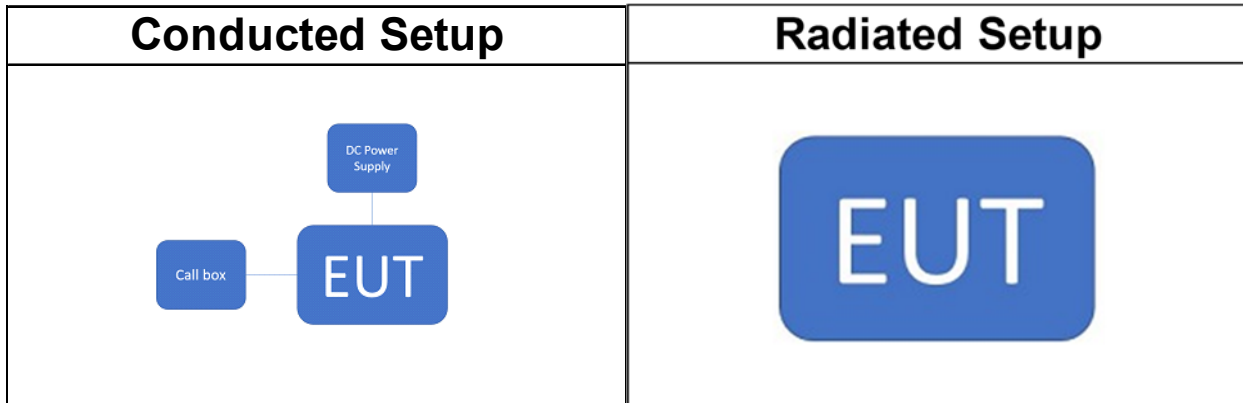
Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 41C 20M+20M QPSK	3.89	422

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2.6 Test Configuration



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

2.7 Control Unit(s)

N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§24.232(c) §27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §24.238(a)(b) §27.53(m)(4)(6)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a)(b) §24.238(a)(b) §27.53(a)(4) §27.53(g) §27.53(h)(1)(3) §27.53(m)(4) §90.691(a)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(a)(1)(B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §24.235 §27.54	Frequency Stability	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Test Channel Details

This device supports with carrier aggregation (two carrier) uplink, Intra-Band contiguous and Inter-Band non-contiguous specification as below:

E-UTRA Intra-Band CA configuration / Bandwidth combination set		
E-UTRA CA configuration	Component carriers in order of in-creasing carrier frequency Channel bandwidth for PCC and SCC [MHz]	Maximum ag-gregated band-width [MHz]
CA_2C	5+20 / 20+5 / 10+15 / 15+10	25
	10+20 / 20+10 / 15+15	30
	15+20 / 20+15	35
	20+20	40
CA_41C	5+20 / 20+5	25
	10+20 / 20+10 / 15+15	30
	15+20 / 20+15	35
	20+20	40

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4.2 The Worst-Case Test Modes and Details

1. Transmissions of each frequency bands are available by 2 antennas below, only one antenna can be enabled at any given time by each band, the EUT dose not support MIMO mode.
2. This EUT is UE LTE 4G 1Tx/2Rx device for single carrier that can support uplink Band 2/4/5/7/12/17/25/26/30/38/41/66/7.
3. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM, 64QAM and 256QAM modulations. It was found that QPSK results the highest, hence all testing was performed using QPSK modulations to represent the worst case.
4. For occupied bandwidth, frequency stability and conducted unwanted emission measurements, due to each single LTE Band standalone transmission generates higher power than the **Inter-band** transmissions, the test results are only demonstrated for each single LTE band standalone transmission in test report TERF2305001076ER as the worst case scenarios.
In addition, the radiated unwanted emissions of **inter-band** has been evaluated as no noticeable emissions, therefore, the conducted unwanted emissions was not tested.
5. For Band Edge and Emission Mask: The widest and narrowest BW combinations were tested. Combinations of same BW is considered equivalent. The RB combinations were selected as the signal activated closest to the band limit for determining the worst case scenario.
6. For Out of Band Emissions: The widest and narrowest RB combinations was tested to determine the worst case scenario with combinations generate higher emissions.
7. For peak to average ratio measurements, due to each single LTE Band standalone transmission generates higher power than the **Inter-band** transmissions, the test results are only demonstrated for each single LTE band standalone transmission in test report TERF2305001076ER as the worst case scenarios.
8. 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.

Mode	Available Antennas				Worst Case Antenna			
	Ant1	Ant2	Ant3	Ant4	Ant1	Ant2	Ant3	Ant4
B2	V	V		V		V		
B41		V		V		V		

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4.2.1 Intra-Band

For uplink Intra-Band CA, evaluation has been done for contiguous and non-contiguous channel and bandwidth, configurations that generates highest output power in standalone transmission have been selected for the final test.

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #							
		L	M	H	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	256QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full	
Max. Output Power	2C	v	v	v				v	v	v	v	v	v	v					v	v	
	41C	v	v	v				v	v	v	v	v	v	v					v	v	
Frequency Stability	2C		v									v	v							v	
	41C		v									v	v							v	
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #							
		L	M	H	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	256QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full	
26dB and 99% Bandwidth	2C		v					v	v	v	v	v	v	v						v	
	41C		v					v	v	v	v	v	v	v						v	
Peak-to-Average Ratio	2C		v					v	v	v	v									v	
	41C		v					v	v	v	v									v	
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #							
		L	M	H	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	256QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full	
Band Edge	2C	v		v				v			v	v						v	v		v

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #							
		L	M	H	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	256QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full	
Mask	41C	v		v				v			v	v						v	v		v

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #						
		L	M	H	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	256QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Conducted Emission	2C	v	v	v				v			v	v								v
	41C	v	v	v				v			v	v								v

Radiated Emission

E-UTRA Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Offset
2C	18700_18817	20_5	QPSK	1_1	99_0
2C	18875_18992	20_5	QPSK	1_1	99_0
2C	19050_19167	20_5	QPSK	1_1	99_0
41C	39683_39800	5_20	QPSK	1_1	24_0
41C	40528_40645	5_20	QPSK	1_1	24_0
41C	41373_41490	5_20	QPSK	1_1	24_0

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4.2.2 Inter-Band

For uplink Inter-Band CA configurations, following configurations have been selected for the final test.

E-UTRA Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Offset
2A_4A	19100_20175	20_20	QPSK	1_1	0_0
2A_5A	19100_20600	20_10	QPSK	1_1	0_0
2A_12A	19100_23060	20_10	QPSK	1_1	0_0
2A_30A	19100_27710	20_10	QPSK	1_1	0_0
2A_66A	19100_132072	20_20	QPSK	1_1	0_0
4A_12A	20175_23060	20_10	QPSK	1_1	0_0
4A_30A	20175_27710	20_10	QPSK	1_1	0_0
5A_30A	20600_27710	10_10	QPSK	1_1	0_0
12A_30A	23060_27710	10_10	QPSK	1_1	0_0
12A_66A	23060_132072	10_20	QPSK	1_1	0_0

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 2.93 dB
	+/- 2.93 dB
Emission Bandwidth	+/- 1.53 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.68 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.53 Hz
Frequency Stability vs. Voltage	+/- 1.53 Hz
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.8 dB	9kHz~30MHz
	+/- 4.82 dB	30MHz - 1000MHz
	+/- 4.37 dB	1GHz - 18GHz
	+/- 4.21 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.8 dB	9kHz~30MHz
	+/- 4.54 dB	30MHz - 1000MHz
	+/- 4.37 dB	1GHz - 18GHz
	+/- 4.21 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 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	05/03/2023	05/02/2024
Radio Communication Analyer	Anritsu	MT8821C	6262044670	08/19/2022	08/18/2023
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/24/2023	05/23/2024
DC Power Supply	Gwinstek	SPS-3610	GEV856733	12/03/2022	12/02/2023
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	12/13/2022	12/12/2023

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6.2 Radiated Measurement

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/07/2022	07/06/2023
Horn Antenna	RF SPIN	DRH18-E	210303A18-E5	02/24/2023	02/23/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/09/2023	03/08/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/11/2023	05/10/2024
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/22/2022	08/21/2023
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/20/2022	12/19/2023
Signal Generator	R&S	SMBV100A	263084	12/29/2022	12/28/2023
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/16/2023	01/15/2024
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2022	08/30/2023
Pre-Amplifier	EMCI	EMC184045B	980135	10/27/2022	10/26/2023
Bandreject Filter 635-920	Micro-Tronics	WI	4	12/13/2022	12/12/2023
Bandreject Filter 1700-2000	Micro-Tronics	EWT	M3	12/13/2022	12/12/2023
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/13/2022	12/12/2023
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	12/13/2022	12/12/2023
3.1GHz High Pass Filter	WI	WFIL-H3100-18000F-01	WRGBAFWC2B6	12/13/2022	12/12/2023
4GHz High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/13/2022	12/12/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 1G (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-600	RX Cable below 1G (220237)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 1G (220910)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC104-SM-SM-10000	RX Cable above 1G (220236)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1000	RX Cable above 1G (201211)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-1500	RX Cable above 1G (220906)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable above 1G (220909)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMCCFD400-NM-NM-10000	RX Cable below 30M (220238)	08/31/2022	08/30/2023
Coaxial Cables	EMCI	EMC105-SM-SM-2000	RX Cable below 30M (220910)	08/31/2022	08/30/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/13/2022	12/12/2023
Site Cal	SGS	SAC 2	N/A	08/31/2022	08/30/2023

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7 MAXIMUM OUTPUT POWER

7.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

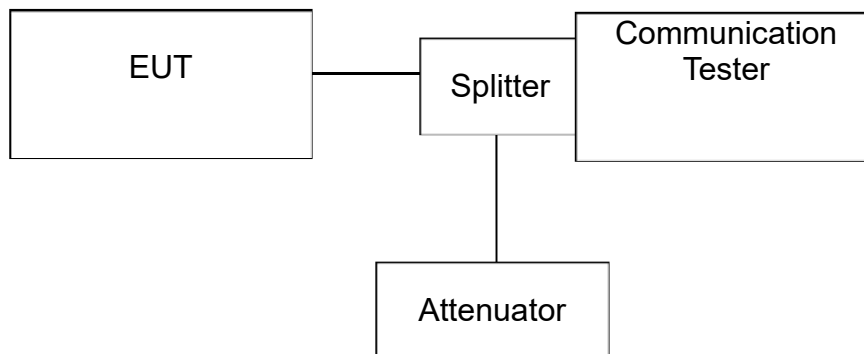
FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

7.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

7.3 Output Power Measurement Applicable Guidance

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.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

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

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);

P_T = transmitter output power, expressed in dBW, dBm, or PSD;

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

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

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7.5 LTE Measurement Results:

7.5.1 Intra-Band

Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND2C (5MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
5MHz+ 20MHz	18633	1853.3	18750	1865.0	QPSK	1	24	1	0	20.83	23.51	23.86	20.26	0.106
						25	0	100	0	18.64	19.21	21.63	18.03	0.064
	18808	1870.8	18925	1882.5	QPSK	1	24	1	0	20.26	23.25	23.26	19.66	0.092
						25	0	100	0	18.65	19.17	21.68	18.08	0.064
	18983	1888.3	19100	1900.0	QPSK	1	24	1	0	20.52	23.51	23.52	19.92	0.098
						25	0	100	0	18.74	19.23	21.76	18.16	0.065
5MHz+ 20MHz	18633	1853.3	18750	1865.0	16QAM	1	24	1	0	19.46	22.54	22.55	18.95	0.079
						25	0	100	0	17.59	18.21	20.66	17.06	0.051
	18808	1870.8	18925	1882.5	16QAM	1	24	1	0	19.40	22.60	22.60	19.00	0.079
						25	0	100	0	17.71	18.21	20.70	17.10	0.051
	18983	1888.3	19100	1900.0	16QAM	1	24	1	0	19.53	22.58	22.58	18.98	0.079
						25	0	100	0	18.12	18.13	20.87	17.27	0.053
5MHz+ 20MHz	18633	1853.3	18750	1865.0	64QAM	1	24	1	0	18.93	21.63	21.64	18.04	0.064
						25	0	100	0	17.56	18.18	20.65	17.05	0.051
	18808	1870.8	18925	1882.5	64QAM	1	24	1	0	18.58	21.64	21.64	18.04	0.064
						25	0	100	0	18.16	17.84	20.73	17.13	0.052
	18983	1888.3	19100	1900.0	64QAM	1	24	1	0	18.90	21.78	21.78	18.18	0.066
						25	0	100	0	17.67	18.28	20.75	17.15	0.052
5MHz+ 20MHz	18633	1853.3	18750	1865.0	256QAM	1	24	1	0	15.36	18.51	18.52	14.92	0.031
						25	0	100	0	15.47	16.12	18.58	14.98	0.031
	18808	1870.8	18925	1882.5	256QAM	1	24	1	0	15.59	18.62	18.63	15.03	0.032
						25	0	100	0	15.63	16.21	18.66	15.06	0.032
	18983	1888.3	19100	1900.0	256QAM	1	24	1	0	15.73	18.89	18.89	15.29	0.034
						25	0	100	0	16.01	15.98	18.79	15.19	0.033

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Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND 2C (20MHz + 5MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+5MHz	18700	1860.0	18817	1871.7	QPSK	1	99	1	0	23.70	20.73	23.71	20.11	0.103
						100	0	25	0	19.03	18.72	21.63	18.03	0.064
	18875	1877.5	18992	1889.2	QPSK	1	99	1	0	23.68	20.33	23.69	20.09	0.102
						100	0	25	0	19.19	18.84	21.79	18.19	0.066
	19050	1895.0	19167	1906.7	QPSK	1	99	1	0	23.56	20.54	23.57	19.97	0.099
						100	0	25	0	19.68	18.34	21.82	18.22	0.066
20MHz+5MHz	18700	1860.0	18817	1871.7	16QAM	1	99	1	0	22.76	19.78	22.76	19.16	0.082
						100	0	25	0	18.05	17.71	20.65	17.05	0.051
	18875	1877.5	18992	1889.2	16QAM	1	99	1	0	22.97	19.99	22.98	19.38	0.087
						100	0	25	0	18.23	17.82	20.76	17.16	0.052
	19050	1895.0	19167	1906.7	16QAM	1	99	1	0	22.93	19.53	22.93	19.33	0.086
						100	0	25	0	18.50	17.65	20.84	17.24	0.053
20MHz+5MHz	18700	1860.0	18817	1871.7	64QAM	1	99	1	0	21.62	18.39	21.62	18.02	0.063
						100	0	25	0	18.12	17.70	20.65	17.05	0.051
	18875	1877.5	18992	1889.2	64QAM	1	99	1	0	21.80	18.88	21.80	18.20	0.066
						100	0	25	0	18.22	17.89	20.79	17.19	0.052
	19050	1895.0	19167	1906.7	64QAM	1	99	1	0	21.72	18.69	21.72	18.12	0.065
						100	0	25	0	18.32	17.79	20.81	17.21	0.053
20MHz+5MHz	18700	1860.0	18817	1871.7	256QAM	1	99	1	0	18.34	15.27	18.34	14.74	0.030
						100	0	25	0	16.08	15.72	18.66	15.06	0.032
	18875	1877.5	18992	1889.2	256QAM	1	99	1	0	18.93	15.77	18.93	15.33	0.034
						100	0	25	0	16.18	15.87	18.79	15.19	0.033
	19050	1895.0	19167	1906.7	256QAM	1	99	1	0	18.53	15.38	18.53	14.93	0.031
						100	0	25	0	16.25	15.82	18.75	15.15	0.033

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Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND 2C (10MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
10MHz+15MHz	18653	1855.3	18773	1867.3	QPSK	1	49	1	0	20.49	20.63	23.49	19.89	0.097
						50	0	75	0	18.57	18.66	21.63	18.03	0.064
	18829	1872.9	18949	1884.9	QPSK	1	49	1	0	20.49	20.73	23.55	19.95	0.099
						50	0	75	0	19.14	18.22	21.71	18.11	0.065
	19005	1890.5	19125	1902.5	QPSK	1	49	1	0	20.37	20.64	23.37	19.77	0.095
						50	0	75	0	18.72	18.80	21.77	18.17	0.066
10MHz+15MHz	18653	1855.3	18773	1867.3	16QAM	1	49	1	0	19.44	19.68	22.48	18.88	0.077
						50	0	75	0	17.69	17.68	20.69	17.09	0.051
	18829	1872.9	18949	1884.9	16QAM	1	49	1	0	19.54	19.55	22.46	18.86	0.077
						50	0	75	0	17.66	17.77	20.72	17.12	0.052
	19005	1890.5	19125	1902.5	16QAM	1	49	1	0	19.80	20.10	22.89	19.29	0.085
						50	0	75	0	17.79	17.81	20.81	17.21	0.053
10MHz+15MHz	18653	1855.3	18773	1867.3	64QAM	1	49	1	0	18.67	19.06	21.77	18.17	0.066
						50	0	75	0	17.57	17.60	20.59	16.99	0.050
	18829	1872.9	18949	1884.9	64QAM	1	49	1	0	18.70	18.97	21.78	18.18	0.066
						50	0	75	0	17.64	17.77	20.71	17.11	0.051
	19005	1890.5	19125	1902.5	64QAM	1	49	1	0	18.49	18.72	21.53	17.93	0.062
						50	0	75	0	17.84	17.92	20.89	17.29	0.054
10MHz+15MHz	18653	1855.3	18773	1867.3	256QAM	1	49	1	0	15.80	16.15	18.91	15.31	0.034
						50	0	75	0	15.55	15.63	18.60	15.00	0.032
	18829	1872.9	18949	1884.9	256QAM	1	49	1	0	15.54	16.09	18.71	15.11	0.032
						50	0	75	0	15.57	15.70	18.64	15.04	0.032
	19005	1890.5	19125	1902.5	256QAM	1	49	1	0	15.45	15.96	18.61	15.01	0.032
						50	0	75	0	15.62	15.67	18.65	15.05	0.032

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Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND2C (15MHz + 10MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+10MHz	18675	1857.5	18795	1869.5	QPSK	1	74	1	0	20.51	20.38	23.36	19.76	0.095
						75	0	50	0	18.49	18.62	21.57	17.97	0.063
	18851	1875.1	18971	1887.1	QPSK	1	74	1	0	21.61	19.53	23.65	20.05	0.101
						75	0	50	0	18.66	18.79	21.73	18.13	0.065
	19027	1892.7	19147	1904.7	QPSK	1	74	1	0	20.44	20.31	23.31	19.71	0.094
						75	0	50	0	18.76	18.76	21.77	18.17	0.066
15MHz+10MHz	18675	1857.5	18795	1869.5	16QAM	1	74	1	0	19.99	20.20	23.02	19.42	0.087
						75	0	50	0	17.59	17.69	20.65	17.05	0.051
	18851	1875.1	18971	1887.1	16QAM	1	74	1	0	19.79	19.70	22.71	19.11	0.081
						75	0	50	0	17.84	17.59	20.73	17.13	0.052
	19027	1892.7	19147	1904.7	16QAM	1	74	1	0	19.60	19.56	22.51	18.91	0.078
						75	0	50	0	17.69	17.83	20.77	17.17	0.052
15MHz+10MHz	18675	1857.5	18795	1869.5	64QAM	1	74	1	0	18.63	18.38	21.45	17.85	0.061
						75	0	50	0	17.62	17.71	20.67	17.07	0.051
	18851	1875.1	18971	1887.1	64QAM	1	74	1	0	18.87	18.63	21.69	18.09	0.064
						75	0	50	0	17.83	17.93	20.89	17.29	0.054
	19027	1892.7	19147	1904.7	64QAM	1	74	1	0	19.06	18.18	21.55	17.95	0.062
						75	0	50	0	17.76	17.78	20.78	17.18	0.052
15MHz+10MHz	18675	1857.5	18795	1869.5	256QAM	1	74	1	0	15.77	15.61	18.63	15.03	0.032
						75	0	50	0	16.03	15.26	18.67	15.07	0.032
	18851	1875.1	18971	1887.1	256QAM	1	74	1	0	15.68	15.49	18.52	14.92	0.031
						75	0	50	0	15.60	15.70	18.66	15.06	0.032
	19027	1892.7	19147	1904.7	256QAM	1	74	1	0	15.35	15.75	18.48	14.88	0.031
						75	0	50	0	15.68	15.90	18.80	15.20	0.033

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Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND 2C (10MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
10MHz+20MHz	18655	1855.5	18799	1869.9	QPSK	1	49	1	0	20.29	22.25	23.32	19.72	0.094
						50	0	100	0	18.64	18.73	21.67	18.07	0.064
	18806	1870.6	18950	1885.0	QPSK	1	49	1	0	20.45	22.45	23.45	19.85	0.097
						50	0	100	0	18.66	18.75	21.69	18.09	0.064
	18956	1885.6	19100	1900.0	QPSK	1	49	1	0	20.35	22.26	23.34	19.74	0.094
						50	0	100	0	19.27	18.36	21.82	18.22	0.066
10MHz+20MHz	18655	1855.5	18799	1869.9	16QAM	1	49	1	0	19.43	21.47	22.53	18.93	0.078
						50	0	100	0	17.62	17.69	20.64	17.04	0.051
	18806	1870.6	18950	1885.0	16QAM	1	49	1	0	19.40	21.62	22.68	19.08	0.081
						50	0	100	0	17.56	17.81	20.68	17.08	0.051
	18956	1885.6	19100	1900.0	16QAM	1	49	1	0	19.88	21.65	22.71	19.11	0.081
						50	0	100	0	17.71	17.84	20.76	17.16	0.052
10MHz+20MHz	18655	1855.5	18799	1869.9	64QAM	1	49	1	0	18.46	20.09	21.26	17.66	0.058
						50	0	100	0	17.55	17.72	20.62	17.02	0.050
	18806	1870.6	18950	1885.0	64QAM	1	49	1	0	18.56	20.37	21.46	17.86	0.061
						50	0	100	0	17.69	17.83	20.75	17.15	0.052
	18956	1885.6	19100	1900.0	64QAM	1	49	1	0	18.84	20.73	21.75	18.15	0.065
						50	0	100	0	17.74	17.91	20.82	17.22	0.053
10MHz+20MHz	18655	1855.5	18799	1869.9	256QAM	1	49	1	0	15.62	17.54	18.57	14.97	0.031
						50	0	100	0	16.04	15.32	18.68	15.08	0.032
	18806	1870.6	18950	1885.0	256QAM	1	49	1	0	15.21	17.56	18.49	14.89	0.031
						50	0	100	0	15.96	15.59	18.76	15.16	0.033
	18956	1885.6	19100	1900.0	256QAM	1	49	1	0	15.53	17.59	18.64	15.04	0.032
						50	0	100	0	15.70	15.89	18.78	15.18	0.033

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Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND 2C (20MHz + 10MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+10MHz	18700	1860.0	18844	1874.4	QPSK	1	99	1	0	22.61	20.16	23.64	20.04	0.101
						100	0	50	0	18.75	18.75	21.73	18.13	0.065
	18851	1875.1	18995	1889.5	QPSK	1	99	1	0	21.94	20.29	23.27	19.67	0.093
						100	0	50	0	18.72	18.87	21.79	18.19	0.066
	19001	1890.1	19145	1904.5	QPSK	1	99	1	0	22.24	20.40	23.41	19.81	0.096
						100	0	50	0	19.55	18.13	21.89	18.29	0.067
20MHz+10MHz	18700	1860.0	18844	1874.4	16QAM	1	99	1	0	21.86	19.55	22.73	19.13	0.082
						100	0	50	0	17.63	17.78	20.68	17.08	0.051
	18851	1875.1	18995	1889.5	16QAM	1	99	1	0	21.51	19.49	22.41	18.81	0.076
						100	0	50	0	17.74	17.82	20.77	17.17	0.052
	19001	1890.1	19145	1904.5	16QAM	1	99	1	0	21.70	20.20	22.99	19.39	0.087
						100	0	50	0	17.77	17.83	20.79	17.19	0.052
20MHz+10MHz	18700	1860.0	18844	1874.4	64QAM	1	99	1	0	20.93	18.85	21.86	18.26	0.067
						100	0	50	0	17.82	17.86	20.82	17.22	0.053
	18851	1875.1	18995	1889.5	64QAM	1	99	1	0	20.44	18.61	21.42	17.82	0.061
						100	0	50	0	17.79	17.82	20.78	17.18	0.052
	19001	1890.1	19145	1904.5	64QAM	1	99	1	0	21.11	19.20	22.07	18.47	0.070
						100	0	50	0	17.77	17.84	20.79	17.19	0.052
20MHz+10MHz	18700	1860.0	18844	1874.4	256QAM	1	99	1	0	17.66	15.87	18.68	15.08	0.032
						100	0	50	0	15.62	15.74	18.66	15.06	0.032
	18851	1875.1	18995	1889.5	256QAM	1	99	1	0	17.24	15.54	18.48	14.88	0.031
						100	0	50	0	15.75	15.79	18.75	15.15	0.033
	19001	1890.1	19145	1904.5	256QAM	1	99	1	0	17.60	15.61	18.64	15.04	0.032
						100	0	50	0	15.79	15.92	18.84	15.24	0.033

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Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND 2C (15MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+ 15MHz	18675	1857.5	18825	1872.5	QPSK	1	74	1	0	20.47	20.50	23.49	19.89	0.097
						75	0	75	0	18.66	18.78	21.73	18.13	0.065
	18825	1872.5	18975	1887.5	QPSK	1	74	1	0	20.39	20.38	23.40	19.80	0.095
						75	0	75	0	18.70	18.81	21.76	18.16	0.065
	18975	1887.5	19125	1902.5	QPSK	1	74	1	0	19.57	19.64	22.62	19.02	0.080
						75	0	75	0	18.74	18.53	21.64	18.04	0.064
15MHz+ 15MHz	18675	1857.5	18825	1872.5	16QAM	1	74	1	0	19.43	19.80	22.63	19.03	0.080
						75	0	75	0	17.55	17.69	20.63	17.03	0.050
	18825	1872.5	18975	1887.5	16QAM	1	74	1	0	19.25	19.06	22.17	18.57	0.072
						75	0	75	0	17.70	17.83	20.78	17.18	0.052
	18975	1887.5	19125	1902.5	16QAM	1	74	1	0	19.49	19.95	22.73	19.13	0.082
						75	0	75	0	17.66	17.75	20.72	17.12	0.052
15MHz+ 15MHz	18675	1857.5	18825	1872.5	64QAM	1	74	1	0	18.51	18.60	21.57	17.97	0.063
						75	0	75	0	17.52	17.70	20.62	17.02	0.050
	18825	1872.5	18975	1887.5	64QAM	1	74	1	0	18.17	18.20	21.20	17.60	0.058
						75	0	75	0	18.14	17.29	20.75	17.15	0.052
	18975	1887.5	19125	1902.5	64QAM	1	74	1	0	18.53	18.54	21.54	17.94	0.062
						75	0	75	0	18.13	17.19	20.70	17.10	0.051
15MHz+ 15MHz	18675	1857.5	18825	1872.5	256QAM	1	74	1	0	15.49	15.62	18.57	14.97	0.031
						75	0	75	0	15.60	15.75	18.69	15.09	0.032
	18825	1872.5	18975	1887.5	256QAM	1	74	1	0	15.73	16.03	18.89	15.29	0.034
						75	0	75	0	15.71	15.79	18.76	15.16	0.033
	18975	1887.5	19125	1902.5	256QAM	1	74	1	0	15.63	15.56	18.60	15.00	0.032
						75	0	75	0	15.74	15.77	18.77	15.17	0.033

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Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND 2C (15MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+20MHz	18678	1857.8	18849	1874.9	QPSK	1	74	1	0	20.59	19.60	23.13	19.53	0.090
						75	0	100	0	18.60	18.76	21.69	18.09	0.064
	18803	1870.3	18974	1887.4	QPSK	1	74	1	0	20.50	20.45	23.49	19.89	0.097
						75	0	100	0	18.61	18.84	21.74	18.14	0.065
18929	1882.9	19100	1900.0	QPSK	1	74	1	0	20.43	20.42	23.43	19.83	0.096	
					75	0	100	0	18.75	18.52	21.65	18.05	0.064	
15MHz+20MHz	18678	1857.8	18849	1874.9	16QAM	1	74	1	0	19.78	19.27	22.54	18.94	0.078
						75	0	100	0	17.69	17.68	20.69	17.09	0.051
	18803	1870.3	18974	1887.4	16QAM	1	74	1	0	19.05	19.07	22.07	18.47	0.070
						75	0	100	0	17.86	17.53	20.71	17.11	0.051
18929	1882.9	19100	1900.0	16QAM	1	74	1	0	19.37	19.68	22.54	18.94	0.078	
					75	0	100	0	17.62	17.86	20.75	17.15	0.052	
15MHz+20MHz	18678	1857.8	18849	1874.9	64QAM	1	74	1	0	18.22	18.37	21.31	17.71	0.059
						75	0	100	0	17.63	17.76	20.71	17.11	0.051
	18803	1870.3	18974	1887.4	64QAM	1	74	1	0	18.41	18.53	21.48	17.88	0.061
						75	0	100	0	17.61	17.79	20.71	17.11	0.051
18929	1882.9	19100	1900.0	64QAM	1	74	1	0	18.67	18.39	21.54	17.94	0.062	
					75	0	100	0	17.73	17.89	20.82	17.22	0.053	
15MHz+20MHz	18678	1857.8	18849	1874.9	256QAM	1	74	1	0	15.21	15.66	18.45	14.85	0.031
						75	0	100	0	15.51	15.74	18.64	15.04	0.032
	18803	1870.3	18974	1887.4	256QAM	1	74	1	0	15.40	15.41	18.42	14.82	0.030
						75	0	100	0	15.64	15.74	18.70	15.10	0.032
18929	1882.9	19100	1900.0	256QAM	1	74	1	0	15.80	15.83	18.83	15.23	0.033	
					75	0	100	0	15.72	15.86	18.80	15.20	0.033	

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Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND 2C (20MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+15MHz	18700	1860.0	18871	1877.1	QPSK	1	99	1	0	20.26	20.28	23.28	19.68	0.093
						100	0	75	0	18.61	18.73	21.68	18.08	0.064
	18826	1872.6	18997	1889.7	QPSK	1	99	1	0	20.55	20.53	23.55	19.95	0.099
						100	0	75	0	18.75	18.81	21.79	18.19	0.066
	18951	1885.1	19122	1902.2	QPSK	1	99	1	0	20.31	20.59	23.46	19.86	0.097
						100	0	75	0	19.22	18.33	21.81	18.21	0.066
20MHz+15MHz	18700	1860.0	18871	1877.1	16QAM	1	99	1	0	19.17	19.23	22.21	18.61	0.073
						100	0	75	0	17.55	17.74	20.66	17.06	0.051
	18826	1872.6	18997	1889.7	16QAM	1	99	1	0	19.50	19.90	22.71	19.11	0.081
						100	0	75	0	17.70	17.75	20.74	17.14	0.052
	18951	1885.1	19122	1902.2	16QAM	1	99	1	0	19.71	19.67	22.70	19.10	0.081
						100	0	75	0	17.70	17.92	20.82	17.22	0.053
20MHz+15MHz	18700	1860.0	18871	1877.1	64QAM	1	99	1	0	18.78	18.74	21.77	18.17	0.066
						100	0	75	0	17.62	17.71	20.68	17.08	0.051
	18826	1872.6	18997	1889.7	64QAM	1	99	1	0	18.84	18.81	21.84	18.24	0.067
						100	0	75	0	18.20	17.26	20.77	17.17	0.052
	18951	1885.1	19122	1902.2	64QAM	1	99	1	0	18.63	18.92	21.79	18.19	0.066
						100	0	75	0	18.04	17.62	20.85	17.25	0.053
20MHz+15MHz	18700	1860.0	18871	1877.1	256QAM	1	99	1	0	15.04	15.18	18.12	14.52	0.028
						100	0	75	0	15.55	15.76	18.67	15.07	0.032
	18826	1872.6	18997	1889.7	256QAM	1	99	1	0	15.42	15.22	18.33	14.73	0.030
						100	0	75	0	15.75	15.85	18.81	15.21	0.033
	18951	1885.1	19122	1902.2	256QAM	1	99	1	0	15.65	15.65	18.66	15.06	0.032
						100	0	75	0	16.28	15.40	18.87	15.27	0.034

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Part 24 _ EIRP Limit (W)	2
Antenna Gain	-3.6

OUTPUT POWER FOR LTE BAND 2C (20MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+20MHz	18700	1860.0	18898	1879.8	QPSK	1	99	1	0	20.23	20.18	23.21	19.61	0.091
						100	0	100	0	18.50	18.73	21.63	18.03	0.064
	18801	1870.1	18999	1889.9	QPSK	1	99	1	0	20.54	20.59	23.57	19.97	0.099
						100	0	100	0	18.73	18.79	21.77	18.17	0.066
	18902	1880.2	19100	1900.0	QPSK	1	99	1	0	20.59	20.62	23.61	20.01	0.100
						100	0	100	0	18.66	18.81	21.75	18.15	0.065
20MHz+20MHz	18700	1860.0	18898	1879.8	16QAM	1	99	1	0	19.59	19.25	22.43	18.83	0.076
						100	0	100	0	17.66	17.68	20.68	17.08	0.051
	18801	1870.1	18999	1889.9	16QAM	1	99	1	0	19.74	19.28	22.52	18.92	0.078
						100	0	100	0	17.62	17.80	20.72	17.12	0.052
	18902	1880.2	19100	1900.0	16QAM	1	99	1	0	19.72	19.47	22.60	19.00	0.079
						100	0	100	0	17.62	17.89	20.77	17.17	0.052
20MHz+20MHz	18700	1860.0	18898	1879.8	64QAM	1	99	1	0	18.01	18.59	21.32	17.72	0.059
						100	0	100	0	17.67	17.70	20.70	17.10	0.051
	18801	1870.1	18999	1889.9	64QAM	1	99	1	0	18.45	18.41	21.44	17.84	0.061
						100	0	100	0	17.66	17.70	20.69	17.09	0.051
	18902	1880.2	19100	1900.0	64QAM	1	99	1	0	18.42	18.41	21.43	17.83	0.061
						100	0	100	0	17.65	17.86	20.77	17.17	0.052
20MHz+20MHz	18700	1860.0	18898	1879.8	256QAM	1	99	1	0	15.73	15.40	18.58	14.98	0.031
						100	0	100	0	15.82	15.51	18.68	15.08	0.032
	18801	1870.1	18999	1889.9	256QAM	1	99	1	0	15.46	15.44	18.46	14.86	0.031
						100	0	100	0	15.70	15.80	18.76	15.16	0.033
	18902	1880.2	19100	1900.0	256QAM	1	99	1	0	15.72	15.61	18.67	15.07	0.032
						100	0	100	0	15.67	15.88	18.78	15.18	0.033

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.35

OUTPUT POWER FOR LTE BAND 41C (5MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
5MHz+ 20MHz	39683	2499.3	39800	2511.0	QPSK	1	24	1	0	21.11	24.11	24.20	23.85	0.243
						25	0	100	0	19.26	19.57	22.19	21.84	0.153
	40528	2583.8	40645	2595.5	QPSK	1	24	1	0	21.02	24.02	24.12	23.77	0.238
						25	0	100	0	19.17	19.55	22.09	21.74	0.149
	41373	2668.3	41490	2680.0	QPSK	1	24	1	0	21.23	24.24	24.34	23.99	0.251
						25	0	100	0	19.31	19.71	22.31	21.96	0.157
5MHz+ 20MHz	39683	2499.3	39800	2511.0	16QAM	1	24	1	0	20.18	22.84	23.25	22.90	0.195
						25	0	100	0	18.23	18.69	21.23	20.88	0.122
	40528	2583.8	40645	2595.5	16QAM	1	24	1	0	19.26	22.96	23.21	22.86	0.193
						25	0	100	0	18.17	18.53	21.05	20.70	0.117
	41373	2668.3	41490	2680.0	16QAM	1	24	1	0	20.02	23.30	23.53	23.18	0.208
						25	0	100	0	18.31	18.74	21.28	20.93	0.124
5MHz+ 20MHz	39683	2499.3	39800	2511.0	64QAM	1	24	1	0	19.11	21.87	22.11	21.76	0.150
						25	0	100	0	18.23	18.67	21.14	20.79	0.120
	40528	2583.8	40645	2595.5	64QAM	1	24	1	0	19.12	22.18	22.21	21.86	0.153
						25	0	100	0	18.12	18.55	21.07	20.72	0.118
	41373	2668.3	41490	2680.0	64QAM	1	24	1	0	19.46	22.14	22.62	22.27	0.169
						25	0	100	0	18.33	18.69	21.24	20.89	0.123
5MHz+ 20MHz	39683	2499.3	39800	2511.0	256QAM	1	24	1	0	16.32	18.99	19.13	18.78	0.076
						25	0	100	0	16.15	16.67	19.17	18.82	0.076
	40528	2583.8	40645	2595.5	256QAM	1	24	1	0	16.25	18.89	19.36	19.01	0.080
						25	0	100	0	16.13	16.58	19.16	18.81	0.076
	41373	2668.3	41490	2680.0	256QAM	1	24	1	0	16.14	19.28	19.54	19.19	0.083
						25	0	100	0	16.34	16.77	19.28	18.93	0.078

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.35

OUTPUT POWER FOR LTE BAND 41C (10MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
10MHz+20MHz	39705	2501.5	39849	2515.9	QPSK	1	49	1	0	21.14	22.96	24.11	23.76	0.238
						50	0	100	0	19.28	19.20	22.27	21.92	0.156
	40526	2583.6	40670	2598.0	QPSK	1	49	1	0	20.94	22.81	24.10	23.75	0.237
						50	0	100	0	19.12	19.15	22.13	21.78	0.151
	41346	2665.6	41490	2680.0	QPSK	1	49	1	0	21.24	23.04	24.29	23.94	0.248
						50	0	100	0	19.31	19.27	22.32	21.97	0.157
10MHz+20MHz	39705	2501.5	39849	2515.9	16QAM	1	49	1	0	19.97	22.07	23.17	22.82	0.191
						50	0	100	0	18.27	18.22	21.27	20.92	0.124
	40526	2583.6	40670	2598.0	16QAM	1	49	1	0	20.01	22.12	23.25	22.90	0.195
						50	0	100	0	18.18	18.13	21.13	20.78	0.120
	41346	2665.6	41490	2680.0	16QAM	1	49	1	0	20.25	22.05	23.24	22.89	0.195
						50	0	100	0	18.45	18.22	21.27	20.92	0.124
10MHz+20MHz	39705	2501.5	39849	2515.9	64QAM	1	49	1	0	19.15	21.19	22.27	21.92	0.156
						50	0	100	0	18.21	18.24	21.24	20.89	0.123
	40526	2583.6	40670	2598.0	64QAM	1	49	1	0	19.04	21.14	22.13	21.78	0.151
						50	0	100	0	18.13	18.14	21.15	20.80	0.120
	41346	2665.6	41490	2680.0	64QAM	1	49	1	0	19.31	21.31	22.49	22.14	0.164
						50	0	100	0	18.33	18.21	21.23	20.88	0.122
10MHz+20MHz	39705	2501.5	39849	2515.9	256QAM	1	49	1	0	16.19	18.17	19.15	18.80	0.076
						50	0	100	0	16.22	16.24	19.24	18.89	0.077
	40526	2583.6	40670	2598.0	256QAM	1	49	1	0	16.21	18.14	19.04	18.69	0.074
						50	0	100	0	16.12	16.09	19.14	18.79	0.076
	41346	2665.6	41490	2680.0	256QAM	1	49	1	0	16.25	18.21	19.34	18.99	0.079
						50	0	100	0	16.42	16.24	19.15	18.80	0.076

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.35

OUTPUT POWER FOR LTE BAND 41C (15MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+ 15MHz	39725	2503.5	39875	2518.5	QPSK	1	74	1	0	21.18	21.06	24.17	23.82	0.241
						75	0	75	0	19.23	19.28	22.27	21.92	0.156
	40545	2585.5	40695	2600.5	QPSK	1	74	1	0	20.94	20.99	23.91	23.56	0.227
						75	0	75	0	19.16	19.04	22.14	21.79	0.151
	41365	2667.5	41515	2682.5	QPSK	1	74	1	0	21.19	21.23	24.16	23.81	0.240
						75	0	75	0	19.37	19.26	22.36	22.01	0.159
15MHz+ 15MHz	39725	2503.5	39875	2518.5	16QAM	1	74	1	0	20.02	20.35	23.13	22.78	0.190
						75	0	75	0	18.22	18.26	21.26	20.91	0.123
	40545	2585.5	40695	2600.5	16QAM	1	74	1	0	19.84	19.62	23.05	22.70	0.186
						75	0	75	0	18.15	18.09	21.11	20.76	0.119
	41365	2667.5	41515	2682.5	16QAM	1	74	1	0	20.24	20.49	23.01	22.66	0.185
						75	0	75	0	18.36	18.25	21.32	20.97	0.125
15MHz+ 15MHz	39725	2503.5	39875	2518.5	64QAM	1	74	1	0	19.14	19.08	22.13	21.78	0.151
						75	0	75	0	18.21	18.26	21.25	20.90	0.123
	40545	2585.5	40695	2600.5	64QAM	1	74	1	0	18.91	19.12	22.16	21.81	0.152
						75	0	75	0	18.21	18.08	21.17	20.82	0.121
	41365	2667.5	41515	2682.5	64QAM	1	74	1	0	19.88	18.71	22.32	21.97	0.157
						75	0	75	0	18.32	18.17	21.29	20.94	0.124
15MHz+ 15MHz	39725	2503.5	39875	2518.5	256QAM	1	74	1	0	16.10	15.92	19.16	18.81	0.076
						75	0	75	0	16.28	16.27	19.25	18.90	0.078
	40545	2585.5	40695	2600.5	256QAM	1	74	1	0	16.02	16.11	18.85	18.50	0.071
						75	0	75	0	16.13	16.06	19.12	18.77	0.075
	41365	2667.5	41515	2682.5	256QAM	1	74	1	0	16.20	16.12	19.34	18.99	0.079
						75	0	75	0	16.34	16.17	19.26	18.91	0.078

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.35

OUTPUT POWER FOR LTE BAND 41C (15MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+20MHz	39728	2503.8	39899	2520.9	QPSK	1	74	1	0	21.01	21.08	24.15	23.80	0.240
						75	0	100	0	19.28	19.23	22.25	21.90	0.155
	40523	2583.3	40694	2600.4	QPSK	1	74	1	0	20.94	21.05	23.95	23.60	0.229
						75	0	100	0	19.12	19.05	22.16	21.81	0.152
	41319	2662.9	41490	2680.0	QPSK	1	74	1	0	21.15	21.18	24.16	23.81	0.240
						75	0	100	0	19.40	19.21	22.35	22.00	0.158
15MHz+20MHz	39728	2503.8	39899	2520.9	16QAM	1	74	1	0	20.56	19.52	23.15	22.80	0.191
						75	0	100	0	18.25	18.17	21.22	20.87	0.122
	40523	2583.3	40694	2600.4	16QAM	1	74	1	0	20.03	20.26	23.09	22.74	0.188
						75	0	100	0	18.17	18.12	21.04	20.69	0.117
	41319	2662.9	41490	2680.0	16QAM	1	74	1	0	20.32	20.18	23.17	22.82	0.191
						75	0	100	0	18.35	18.22	21.32	20.97	0.125
15MHz+20MHz	39728	2503.8	39899	2520.9	64QAM	1	74	1	0	19.25	19.32	22.45	22.10	0.162
						75	0	100	0	18.25	18.23	21.24	20.89	0.123
	40523	2583.3	40694	2600.4	64QAM	1	74	1	0	19.06	19.14	21.95	21.60	0.145
						75	0	100	0	18.22	18.12	21.15	20.80	0.120
	41319	2662.9	41490	2680.0	64QAM	1	74	1	0	19.15	19.30	22.22	21.87	0.154
						75	0	100	0	18.38	18.23	21.35	21.00	0.126
15MHz+20MHz	39728	2503.8	39899	2520.9	256QAM	1	74	1	0	16.07	16.25	19.31	18.96	0.079
						75	0	100	0	16.27	16.30	19.27	18.92	0.078
	40523	2583.3	40694	2600.4	256QAM	1	74	1	0	16.18	16.11	19.15	18.80	0.076
						75	0	100	0	16.14	16.09	19.12	18.77	0.075
	41319	2662.9	41490	2680.0	256QAM	1	74	1	0	16.09	16.25	19.18	18.83	0.076
						75	0	100	0	16.41	16.21	19.16	18.81	0.076

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.35

OUTPUT POWER FOR LTE BAND 41C (20MHz + 5MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+5MHz	39750	2506.0	39867	2517.7	QPSK	1	99	1	0	24.02	21.02	24.12	23.77	0.238
						100	0	25	0	19.78	19.22	22.25	21.90	0.155
	40595	2590.5	40712	2602.2	QPSK	1	99	1	0	23.99	21.07	24.09	23.74	0.237
						100	0	25	0	19.63	19.19	22.16	21.81	0.152
	41440	2675.0	41557	2686.7	QPSK	1	99	1	0	24.09	21.06	24.25	23.90	0.245
						100	0	25	0	19.75	19.22	22.28	21.93	0.156
20MHz+5MHz	39750	2506.0	39867	2517.7	16QAM	1	99	1	0	23.05	20.04	23.19	22.84	0.192
						100	0	25	0	18.72	18.28	21.24	20.89	0.123
	40595	2590.5	40712	2602.2	16QAM	1	99	1	0	23.13	19.99	23.28	22.93	0.196
						100	0	25	0	18.64	18.14	21.17	20.82	0.121
	41440	2675.0	41557	2686.7	16QAM	1	99	1	0	23.19	20.06	23.31	22.96	0.198
						100	0	25	0	18.91	18.26	21.34	20.99	0.126
20MHz+5MHz	39750	2506.0	39867	2517.7	64QAM	1	99	1	0	21.96	19.32	22.17	21.82	0.152
						100	0	25	0	18.63	18.25	21.22	20.87	0.122
	40595	2590.5	40712	2602.2	64QAM	1	99	1	0	21.94	19.14	22.17	21.82	0.152
						100	0	25	0	18.68	18.17	21.15	20.80	0.120
	41440	2675.0	41557	2686.7	64QAM	1	99	1	0	22.26	19.47	22.53	22.18	0.165
						100	0	25	0	18.82	18.15	21.37	21.02	0.126
20MHz+5MHz	39750	2506.0	39867	2517.7	256QAM	1	99	1	0	19.01	16.41	19.26	18.91	0.078
						100	0	25	0	16.64	16.24	19.26	18.91	0.078
	40595	2590.5	40712	2602.2	256QAM	1	99	1	0	19.06	16.33	19.28	18.93	0.078
						100	0	25	0	16.66	16.14	19.08	18.73	0.075
	41440	2675.0	41557	2686.7	256QAM	1	99	1	0	19.04	16.11	19.46	19.11	0.081
						100	0	25	0	16.81	16.25	19.27	18.92	0.078

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.35

OUTPUT POWER FOR LTE BAND 41C (20MHz + 10MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+10MHz	39750	2506.0	39894	2520.4	QPSK	1	99	1	0	23.10	21.14	24.02	23.67	0.233
						100	0	50	0	19.33	19.28	22.28	21.93	0.156
	40571	2588.1	40715	2602.5	QPSK	1	99	1	0	22.88	21.48	23.98	23.63	0.231
						100	0	50	0	19.12	19.13	22.13	21.78	0.151
	41391	2670.1	41535	2684.5	QPSK	1	99	1	0	23.33	20.57	24.13	23.78	0.239
						100	0	50	0	19.41	19.27	22.34	21.99	0.158
20MHz+10MHz	39750	2506.0	39894	2520.4	16QAM	1	99	1	0	21.74	20.06	23.10	22.75	0.188
						100	0	50	0	18.33	18.24	21.25	20.90	0.123
	40571	2588.1	40715	2602.5	16QAM	1	99	1	0	21.97	20.05	23.01	22.66	0.185
						100	0	50	0	18.12	18.16	21.13	20.78	0.120
	41391	2670.1	41535	2684.5	16QAM	1	99	1	0	22.12	20.24	23.17	22.82	0.191
						100	0	50	0	18.41	18.22	21.36	21.01	0.126
20MHz+10MHz	39750	2506.0	39894	2520.4	64QAM	1	99	1	0	21.14	19.09	22.37	22.02	0.159
						100	0	50	0	18.24	18.25	21.27	20.92	0.124
	40571	2588.1	40715	2602.5	64QAM	1	99	1	0	21.05	19.13	22.24	21.89	0.155
						100	0	50	0	18.21	18.13	21.17	20.82	0.121
	41391	2670.1	41535	2684.5	64QAM	1	99	1	0	21.52	19.12	22.08	21.73	0.149
						100	0	50	0	18.36	18.17	21.29	20.94	0.124
20MHz+10MHz	39750	2506.0	39894	2520.4	256QAM	1	99	1	0	18.12	16.37	19.18	18.83	0.076
						100	0	50	0	16.31	16.23	19.23	18.88	0.077
	40571	2588.1	40715	2602.5	256QAM	1	99	1	0	17.95	16.09	19.14	18.79	0.076
						100	0	50	0	16.16	16.18	19.17	18.82	0.076
	41391	2670.1	41535	2684.5	256QAM	1	99	1	0	18.21	16.05	19.36	19.01	0.080
						100	0	50	0	16.45	16.28	19.25	18.90	0.078

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.35

OUTPUT POWER FOR LTE BAND 41C (20MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+ 15MHz	39750	2506.0	39921	2523.1	QPSK	1	99	1	0	21.04	21.10	24.01	23.66	0.232
						100	0	75	0	19.21	19.25	22.26	21.91	0.155
	40546	2585.6	40717	2602.7	QPSK	1	99	1	0	20.96	21.05	24.06	23.71	0.235
						100	0	75	0	19.14	19.11	22.15	21.80	0.151
	41341	2665.1	41512	2682.2	QPSK	1	99	1	0	21.21	21.11	24.14	23.79	0.239
						100	0	75	0	19.44	19.25	22.31	21.96	0.157
20MHz+ 15MHz	39750	2506.0	39921	2523.1	16QAM	1	99	1	0	20.02	20.16	23.05	22.70	0.186
						100	0	75	0	18.21	18.23	21.27	20.92	0.124
	40546	2585.6	40717	2602.7	16QAM	1	99	1	0	19.86	19.95	22.98	22.63	0.183
						100	0	75	0	18.12	18.09	21.15	20.80	0.120
	41341	2665.1	41512	2682.2	16QAM	1	99	1	0	20.16	20.11	23.16	22.81	0.191
						100	0	75	0	18.35	18.26	21.28	20.93	0.124
20MHz+ 15MHz	39750	2506.0	39921	2523.1	64QAM	1	99	1	0	19.17	19.36	22.05	21.70	0.148
						100	0	75	0	18.18	18.21	21.27	20.92	0.124
	40546	2585.6	40717	2602.7	64QAM	1	99	1	0	19.01	19.15	22.10	21.75	0.150
						100	0	75	0	18.22	18.09	21.14	20.79	0.120
	41341	2665.1	41512	2682.2	64QAM	1	99	1	0	19.26	19.16	22.28	21.93	0.156
						100	0	75	0	18.31	18.24	21.25	20.90	0.123
20MHz+ 15MHz	39750	2506.0	39921	2523.1	256QAM	1	99	1	0	16.01	16.32	19.25	18.90	0.078
						100	0	75	0	16.26	16.30	19.21	18.86	0.077
	40546	2585.6	40717	2602.7	256QAM	1	99	1	0	15.96	16.10	19.08	18.73	0.075
						100	0	75	0	16.14	16.04	19.12	18.77	0.075
	41341	2665.1	41512	2682.2	256QAM	1	99	1	0	16.18	16.28	19.34	18.99	0.079
						100	0	75	0	16.34	16.25	19.33	18.98	0.079

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.35

OUTPUT POWER FOR LTE BAND 41 (20MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+20MHz	39750	2506.0	39948	2525.8	QPSK	1	99	1	0	21.04	21.09	24.06	23.71	0.235
						100	0	100	0	19.22	19.21	22.28	21.93	0.156
	40521	2583.1	40719	2602.9	QPSK	1	99	1	0	21.02	20.98	23.91	23.56	0.227
						100	0	100	0	19.15	19.09	22.16	21.81	0.152
41292	2660.2	41490	2680.0	QPSK	1	99	1	0	21.20	21.11	24.11	23.76	0.238	
					100	0	100	0	19.35	19.21	22.29	21.94	0.156	
20MHz+20MHz	39750	2506.0	39948	2525.8	16QAM	1	99	1	0	20.11	20.25	23.10	22.75	0.188
						100	0	100	0	18.21	18.26	21.21	20.86	0.122
	40521	2583.1	40719	2602.9	16QAM	1	99	1	0	19.33	20.51	23.04	22.69	0.186
						100	0	100	0	18.14	18.07	21.12	20.77	0.119
41292	2660.2	41490	2680.0	16QAM	1	99	1	0	20.37	20.20	23.15	22.80	0.191	
					100	0	100	0	18.36	18.25	21.35	21.00	0.126	
20MHz+20MHz	39750	2506.0	39948	2525.8	64QAM	1	99	1	0	19.07	19.25	22.18	21.83	0.152
						100	0	100	0	18.23	18.17	21.23	20.88	0.122
	40521	2583.1	40719	2602.9	64QAM	1	99	1	0	19.52	18.53	22.13	21.78	0.151
						100	0	100	0	18.07	18.18	21.15	20.80	0.120
41292	2660.2	41490	2680.0	64QAM	1	99	1	0	19.31	19.42	22.04	21.69	0.148	
					100	0	100	0	18.35	18.21	21.26	20.91	0.123	
20MHz+20MHz	39750	2506.0	39948	2525.8	256QAM	1	99	1	0	16.07	16.02	19.27	18.92	0.078
						100	0	100	0	16.21	16.26	19.05	18.70	0.074
	40521	2583.1	40719	2602.9	256QAM	1	99	1	0	16.20	16.07	19.11	18.76	0.075
						100	0	100	0	16.15	16.14	19.13	18.78	0.076
41292	2660.2	41490	2680.0	256QAM	1	99	1	0	16.35	16.11	19.31	18.96	0.079	
					100	0	100	0	16.35	16.21	19.14	18.79	0.076	

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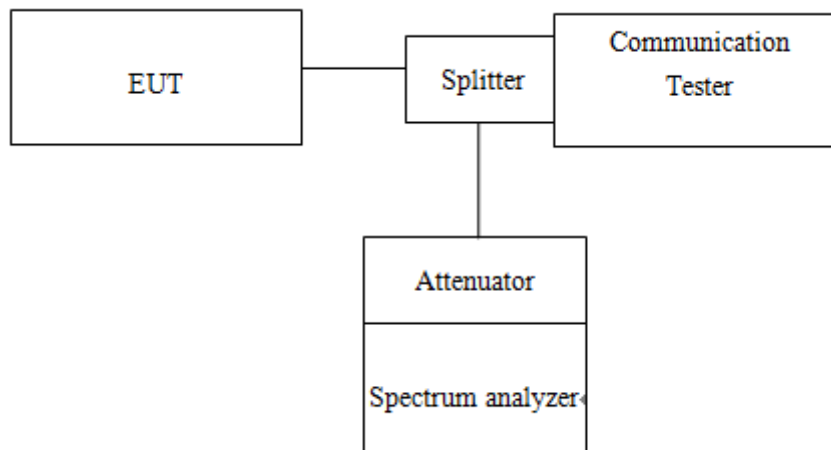
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8 OCCUPIED BANDWIDTH MEASUREMENT

8.1 Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

8.2 Test Set-up



8.3 Measurement Procedure

99% & 26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4 Measurement Result

LTE BAND 2C

Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	99% BW (MHz)				26 dB BW (MHz)			
				QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
LTE BAND 2C	5MHz + 20MHz	25/0 + 100/0	1880.0	22.964	22.925	22.894	22.901	24.4	24.27	24.24	24.42
LTE BAND 2C	20MHz + 5MHz	100/0 + 25/0	1880.0	23.003	22.961	22.969	22.948	24.46	24.28	24.38	24.41
LTE BAND 2C	10MHz + 15MHz	50/0 + 75/0	1880.0	23.18	23.198	23.178	23.158	24.73	24.81	24.84	24.75
LTE BAND 2C	15MHz + 10MHz	75/0 + 50/0	1880.0	23.254	23.207	23.194	23.197	24.83	24.9	24.89	24.89
LTE BAND 2C	10MHz + 20MHz	50/0 + 100/0	1880.0	27.858	27.808	27.797	27.774	29.74	29.64	29.72	29.7
LTE BAND 2C	20MHz + 10MHz	100/0 + 50/0	1880.0	27.873	27.847	27.833	27.816	29.66	29.56	29.68	29.66
LTE BAND 2C	15MHz + 15MHz	75/0 + 75/0	1880.0	28.448	28.445	28.404	28.385	33.32	30.41	30.46	30.39
LTE BAND 2C	15MHz + 20MHz	75/0 + 100/0	1880.0	32.772	32.755	32.685	32.745	35.04	34.74	34.9	34.85
LTE BAND 2C	20MHz + 15MHz	100/0 + 75/0	1880.0	32.719	32.760	32.698	32.733	34.89	34.86	35	34.91
LTE BAND 2C	20MHz + 20MHz	100/0 + 100/0	1880.0	37.729	37.671	37.744	37.68	40.36	40.11	40.21	40.12

LTE BAND 41C

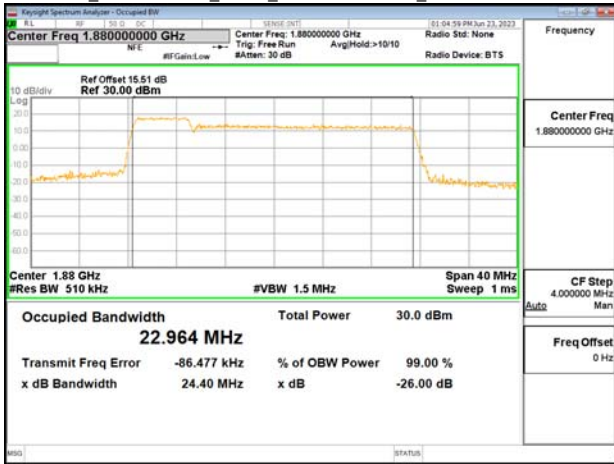
Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	99% BW (MHz)				26 dB BW (MHz)			
				QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
LTE BAND 41C	5MHz + 20MHz	25/0 + 100/0	2593.0	22.954	22.908	22.939	22.924	24.37	24.3	24.54	24.16
LTE BAND 41C	20MHz + 5MHz	100/0 + 25/0	2593.0	22.971	22.915	22.949	22.943	24.33	24.42	24.3	24.44
LTE BAND 41C	10MHz + 20MHz	50/0 + 100/0	2593.0	27.86	27.884	27.807	27.821	29.71	29.54	29.5	29.64
LTE BAND 41C	20MHz + 10MHz	100/0 + 50/0	2593.0	27.833	27.793	27.8	27.833	29.73	29.49	29.68	29.62
LTE BAND 41C	15MHz + 15MHz	75/0 + 75/0	2593.0	28.381	28.396	28.393	28.421	30.46	30.43	30.48	30.33
LTE BAND 41C	15MHz + 20MHz	75/0 + 100/0	2593.0	32.705	32.727	32.737	32.722	34.82	34.93	34.99	34.78
LTE BAND 41C	20MHz + 15MHz	100/0 + 75/0	2593.0	32.716	32.738	32.713	32.731	34.91	34.76	34.71	34.85
LTE BAND 41C	20MHz + 20MHz	100/0 + 100/0	2593.0	37.726	37.623	37.642	37.654	40.11	40.08	39.95	40.05

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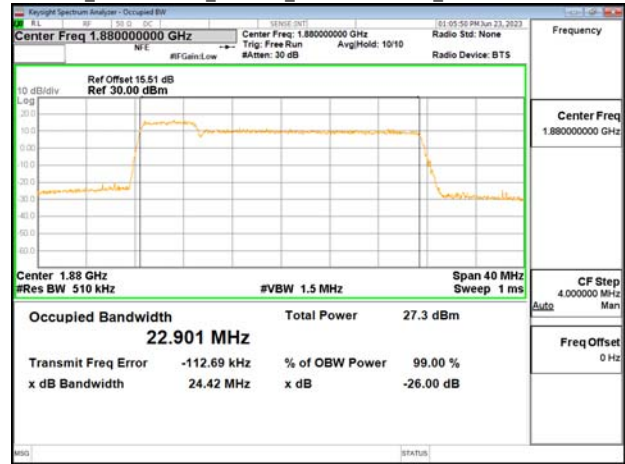
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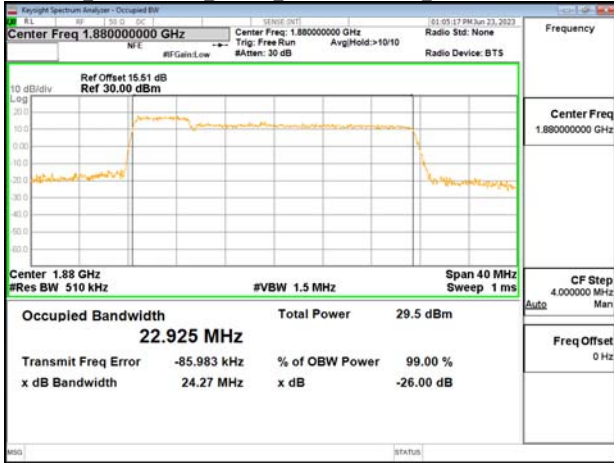
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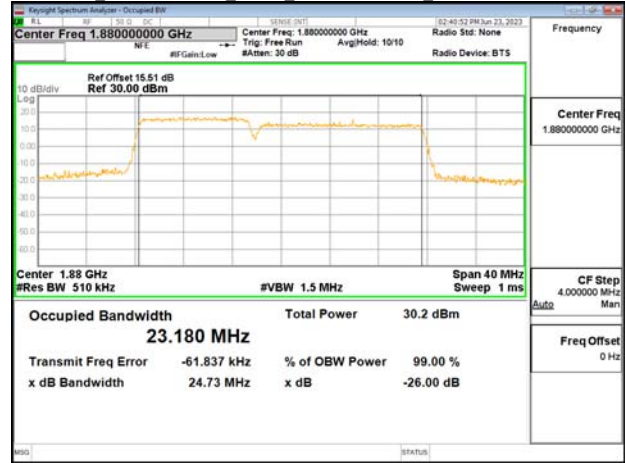
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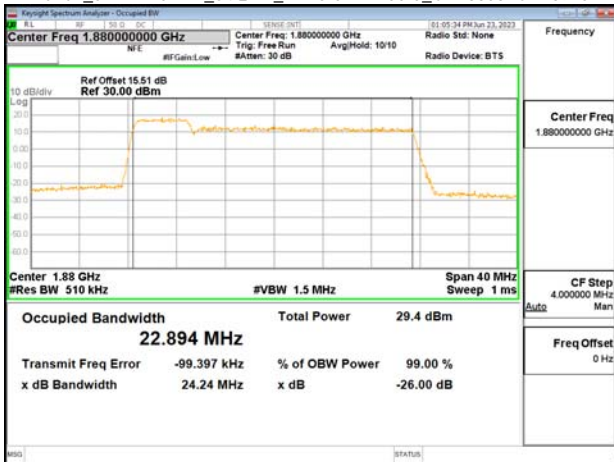
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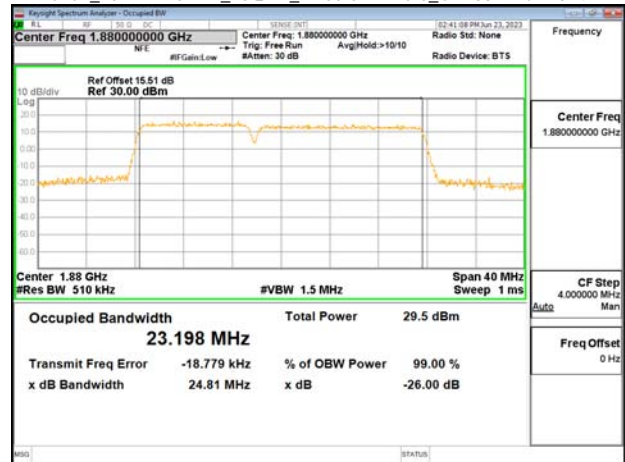
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Band2_5MHz+20MHz_64QAM_RB25-0+RB100-0_CH18808+CH18925



Band2_10MHz+15MHz_16QAM_RB50-0+RB75-0_CH18829+CH18949

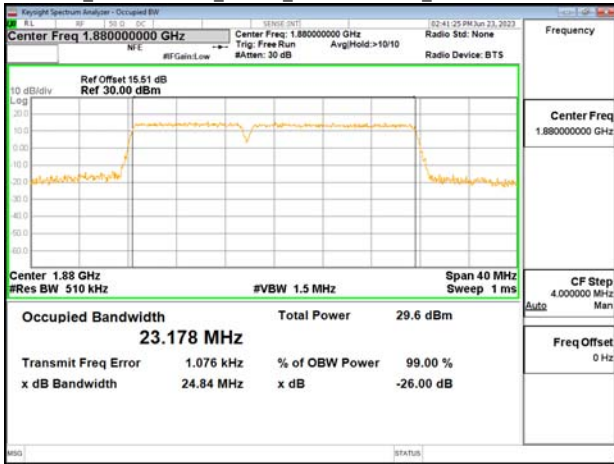


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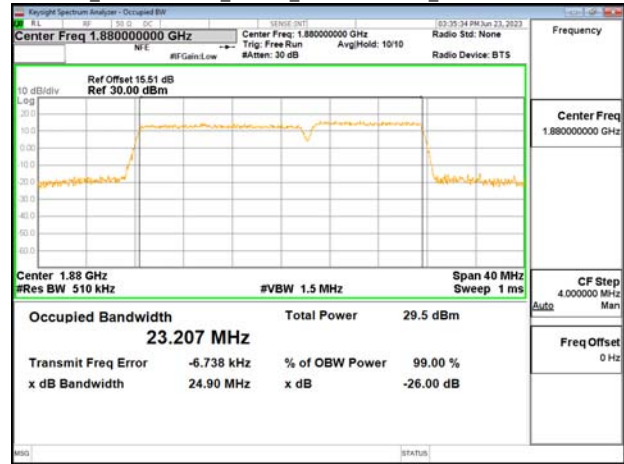
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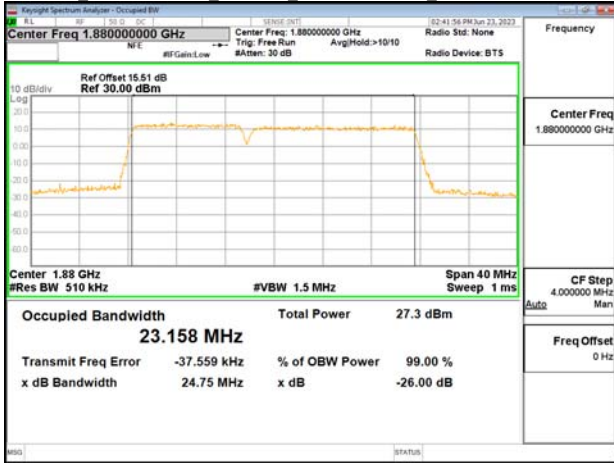
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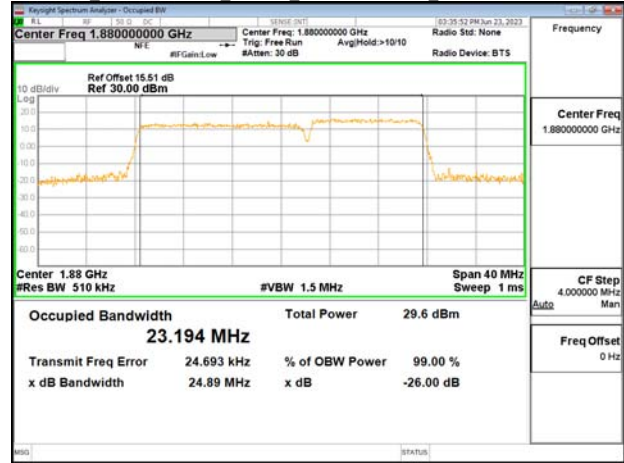
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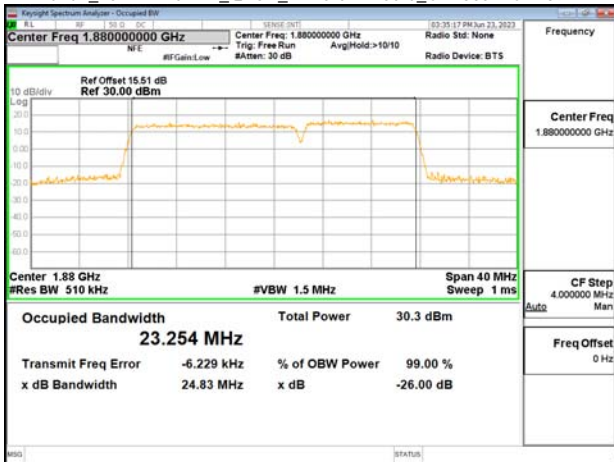
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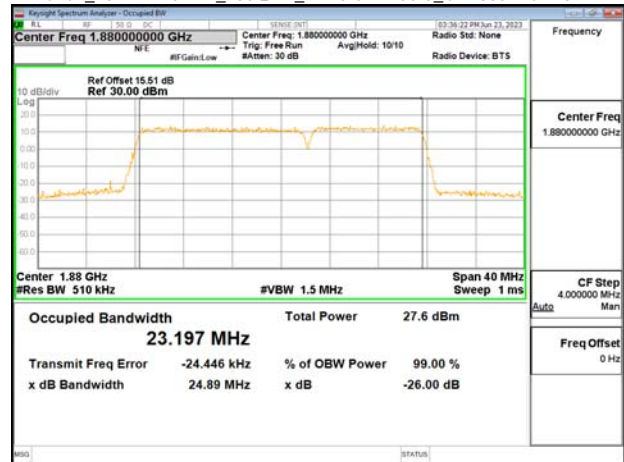
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Band2_15MHz+10MHz_QPSK_RB75-0+RB50-0_CH18851+CH18971



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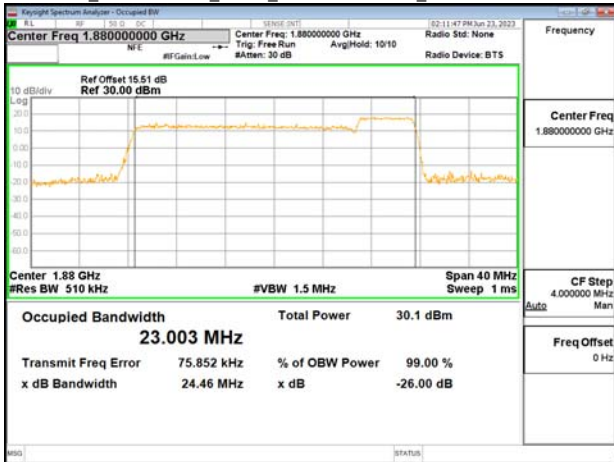


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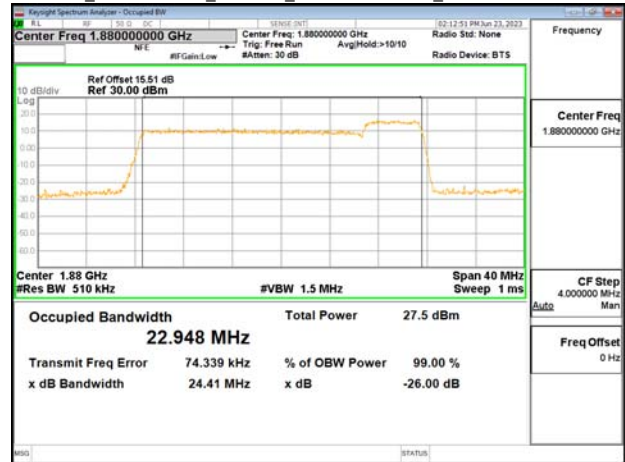
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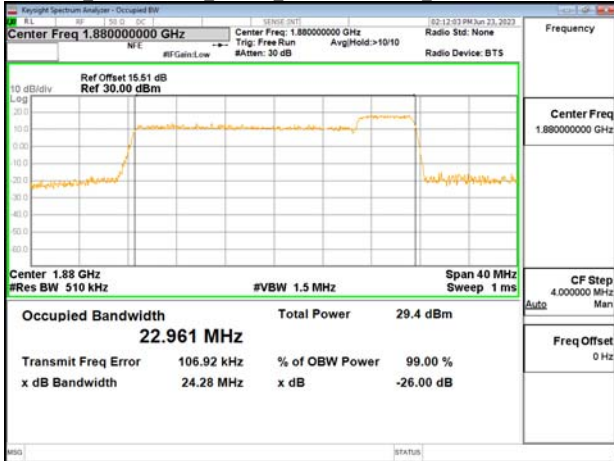
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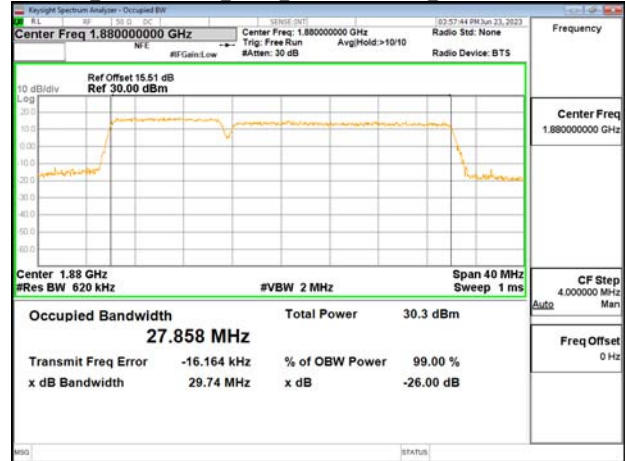
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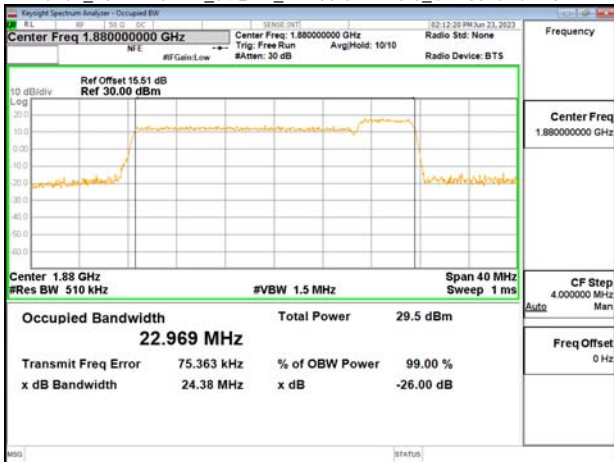
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Band2_20MHz+5MHz_64QAM_RB100-0+RB25-0_CH18875+CH18992



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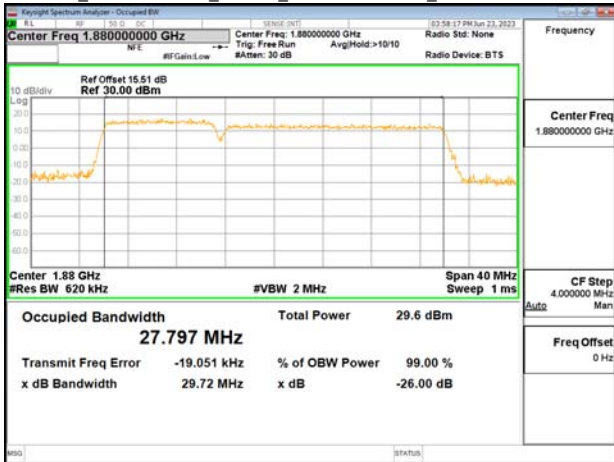


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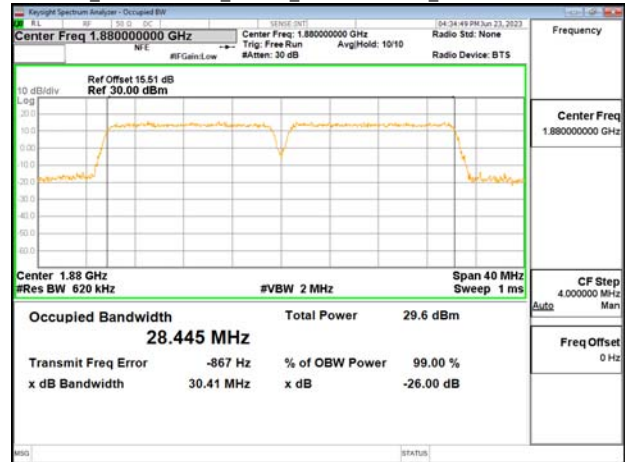
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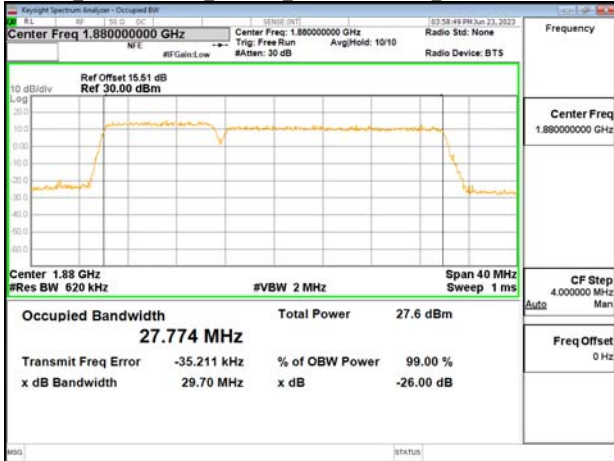
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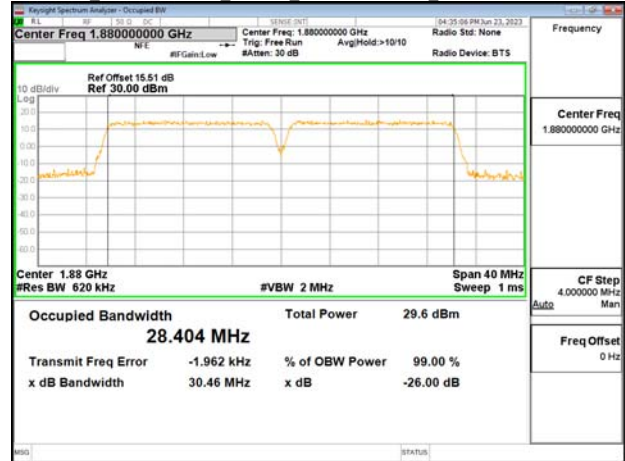
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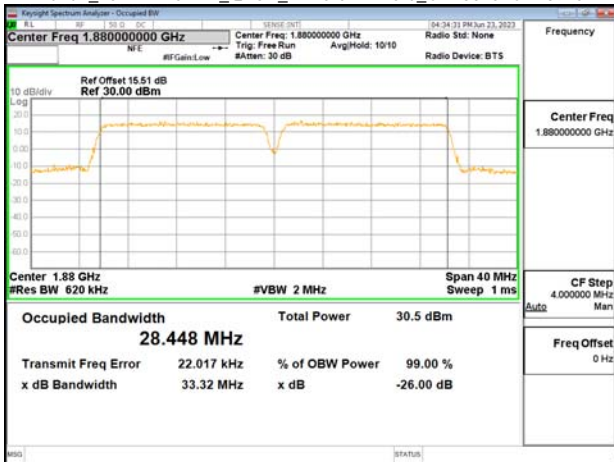
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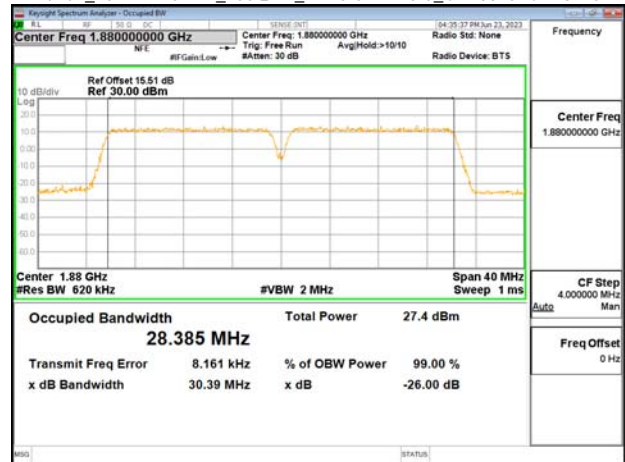
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Band2_15MHz+15MHz_QPSK_RB75-0+RB75-0_CH18825+CH18975



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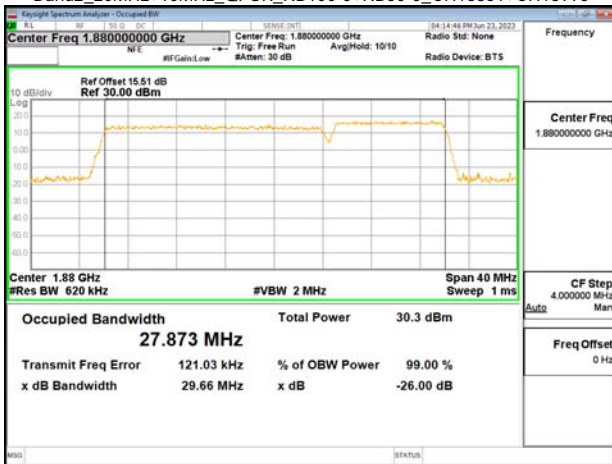


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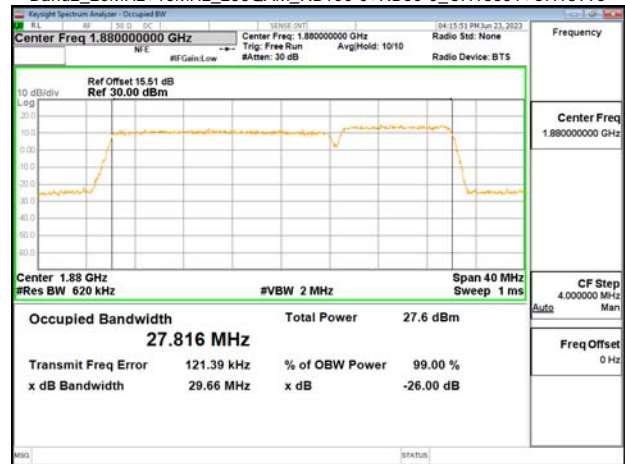
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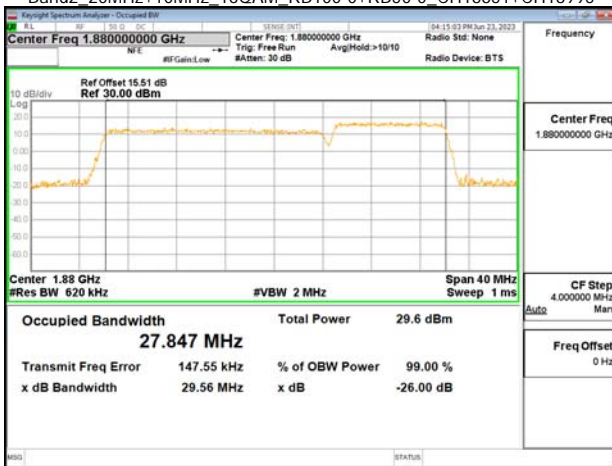
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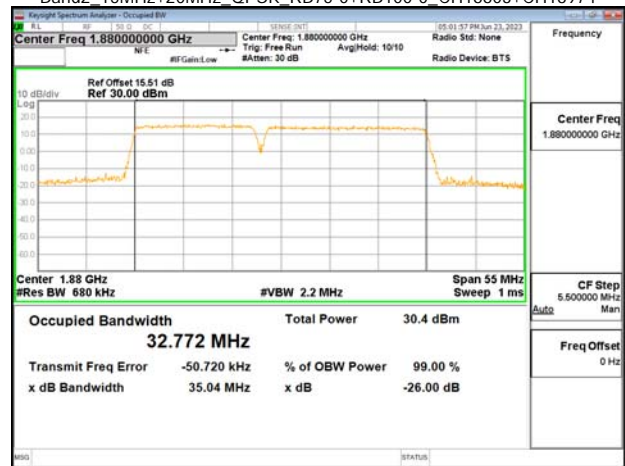
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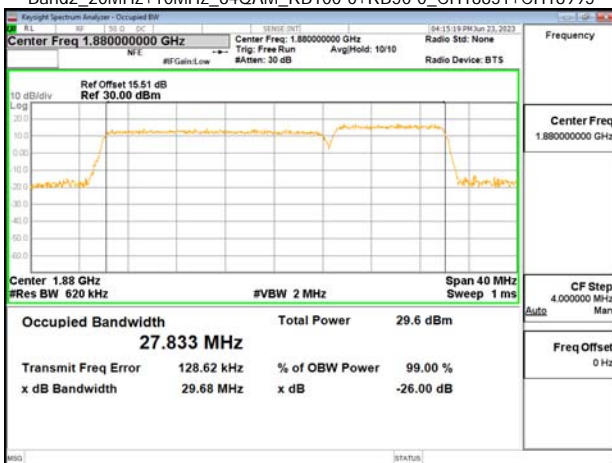
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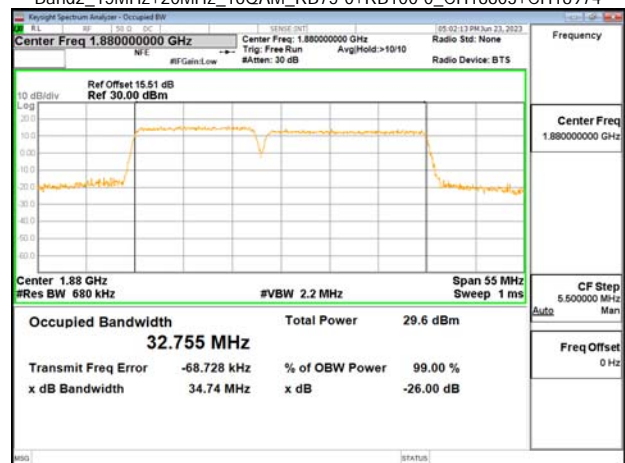
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Band2_15MHz+20MHz_16QAM_RB75-0+RB100-0_CH18803+CH18974

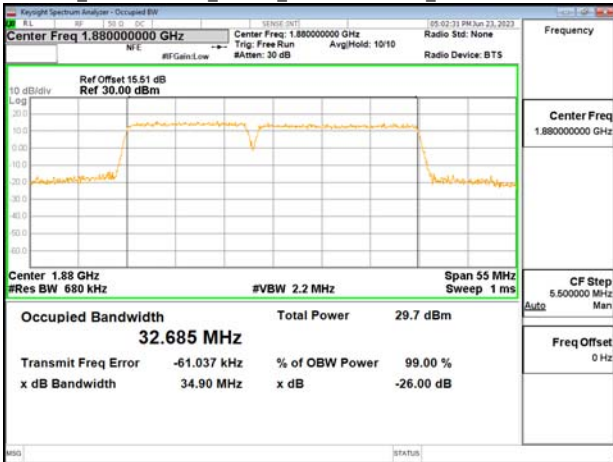


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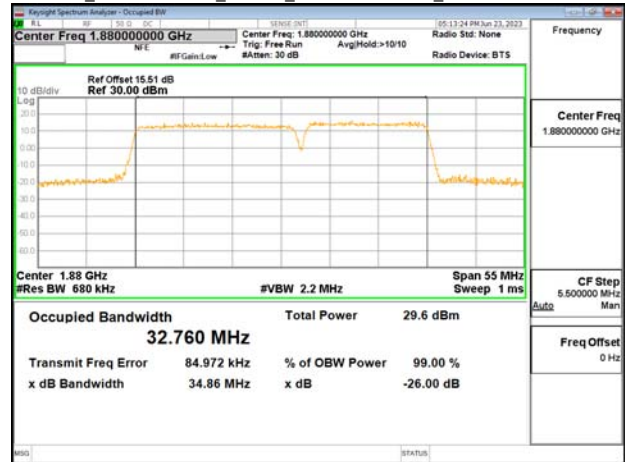
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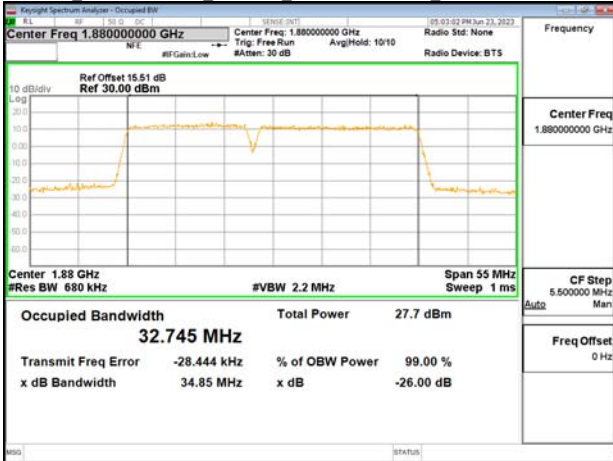
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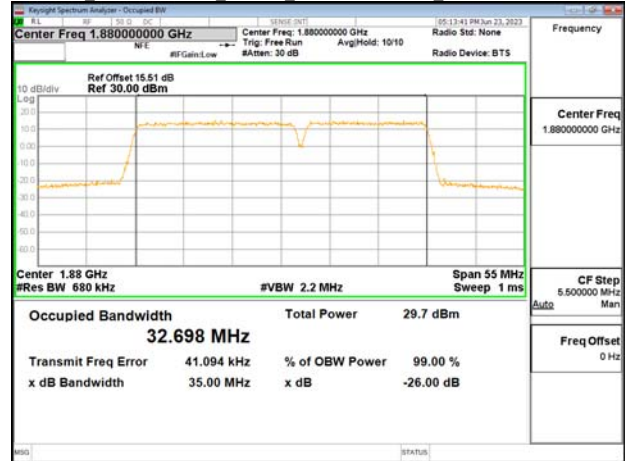
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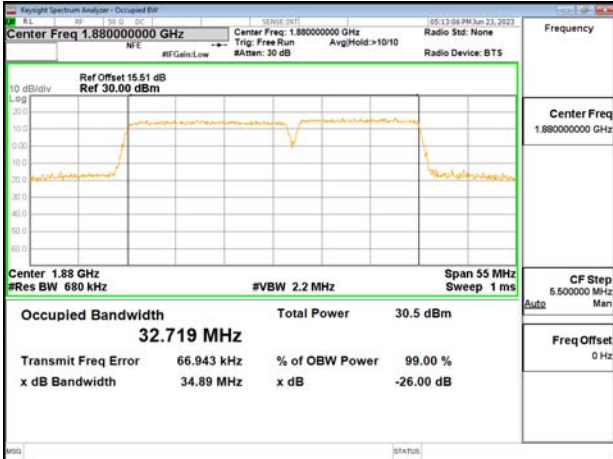
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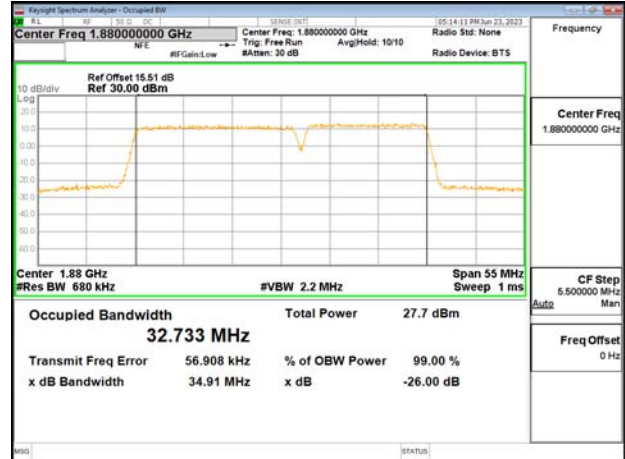
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Band2_20MHz+15MHz_QPSK_RB100-0+RB75-0_CH18826+CH18997



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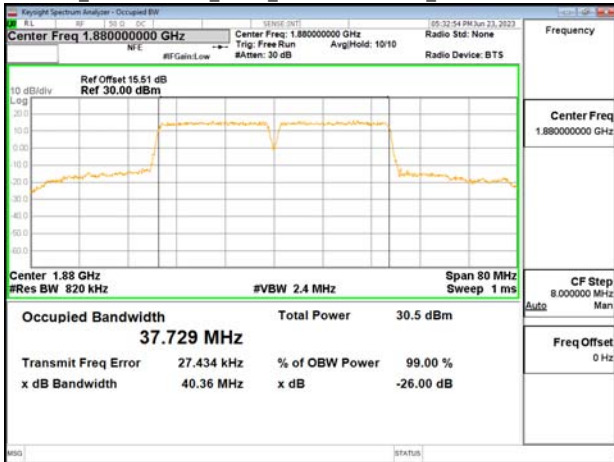


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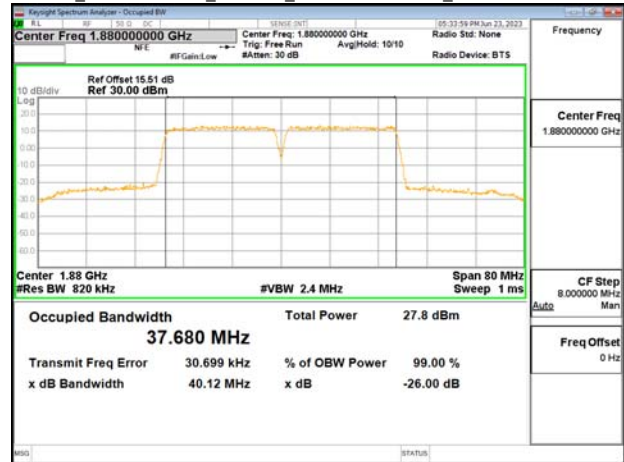
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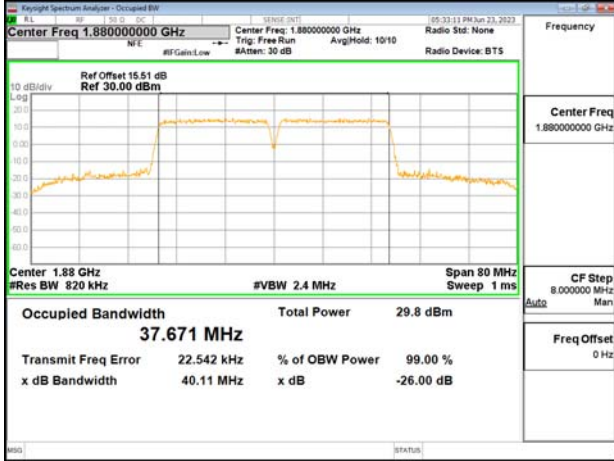
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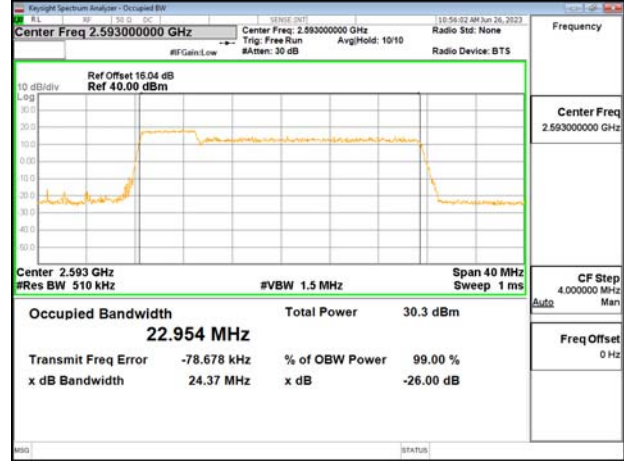
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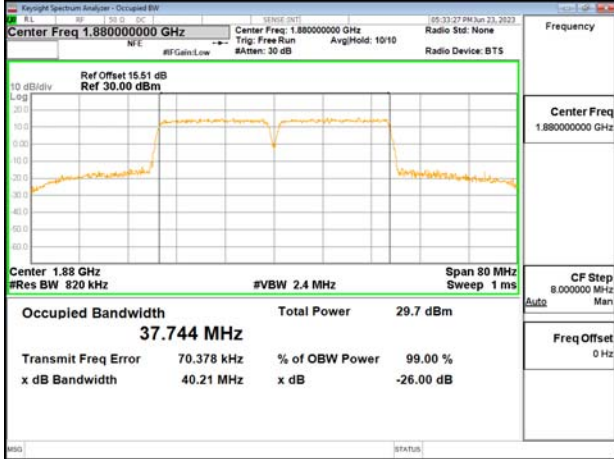
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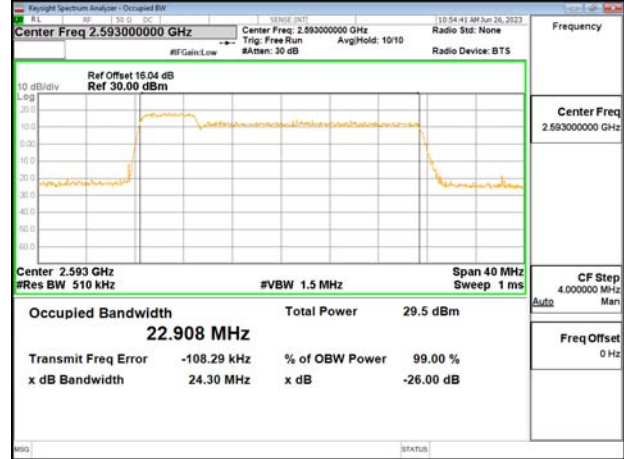
Band41_5MHz+20MHz_OPSK_RB25-0+RB100-0_CH40528+CH40645



Band2_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH18801+CH18999



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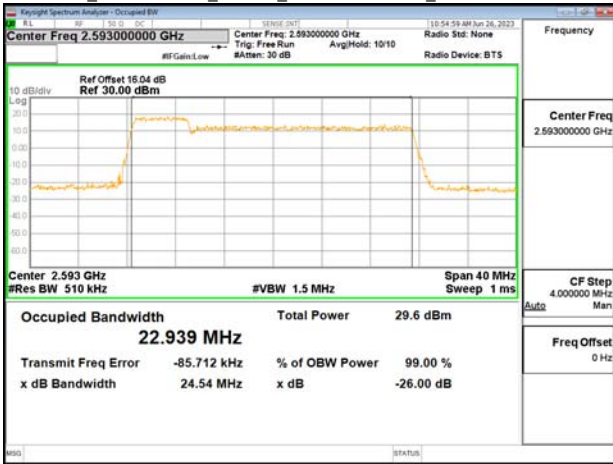


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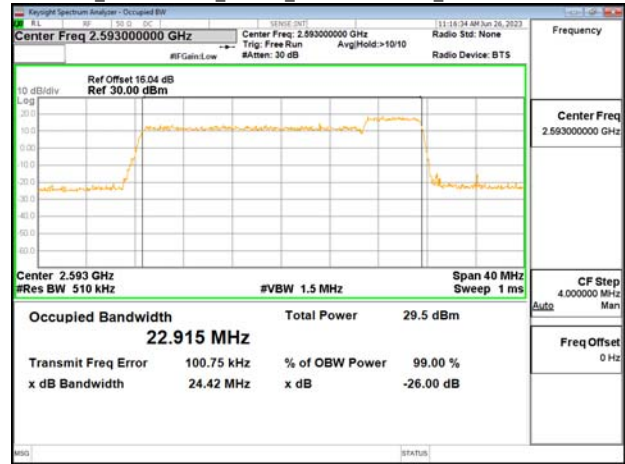
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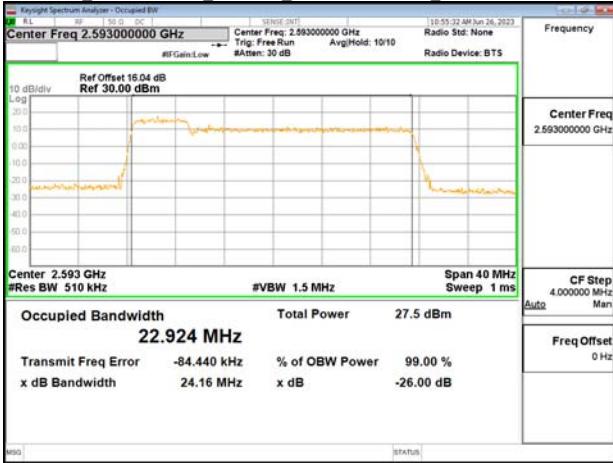
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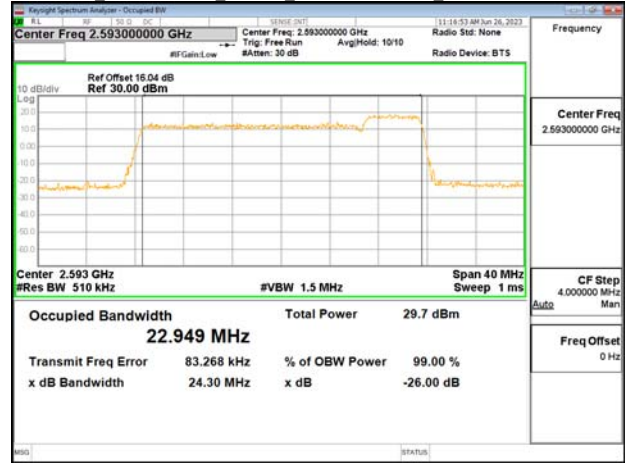
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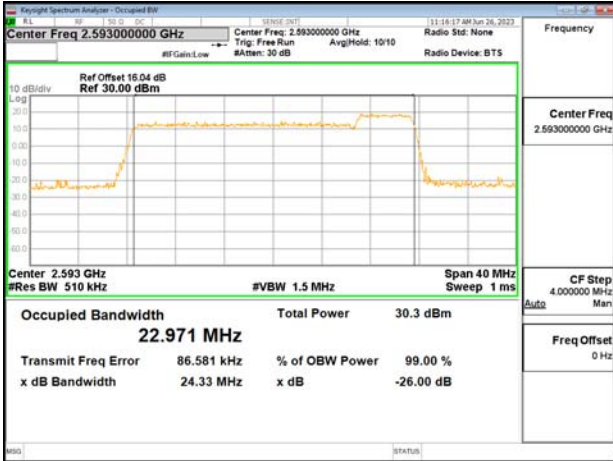
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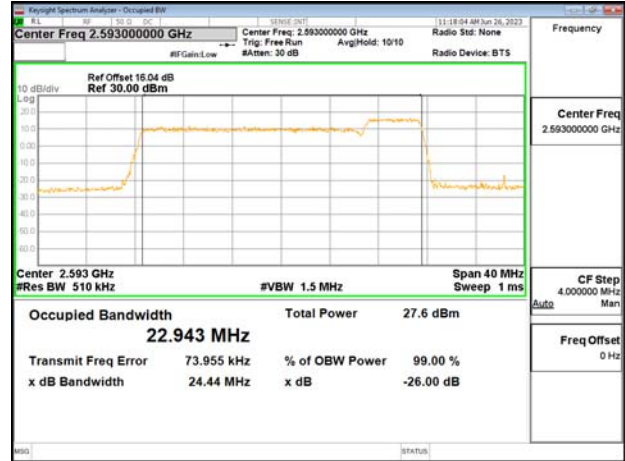
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Band41_20MHz+5MHz_QPSK_RB100-0+RB25-0_CH40595+CH40712



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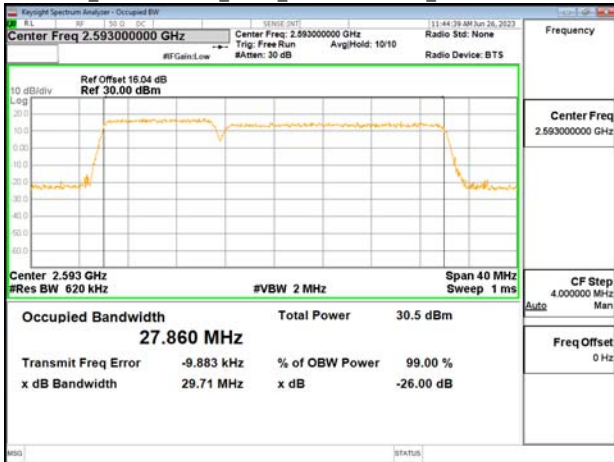


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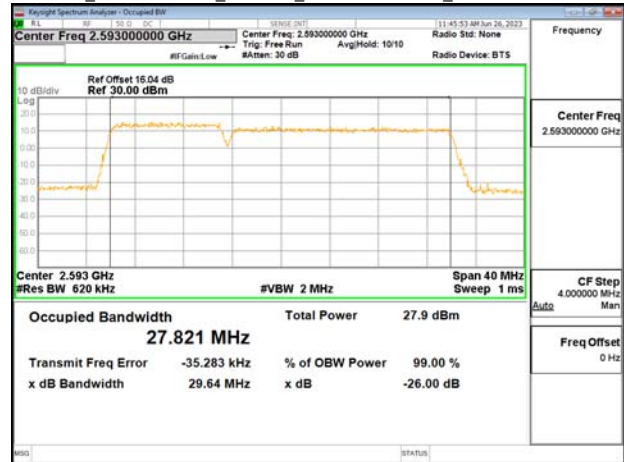
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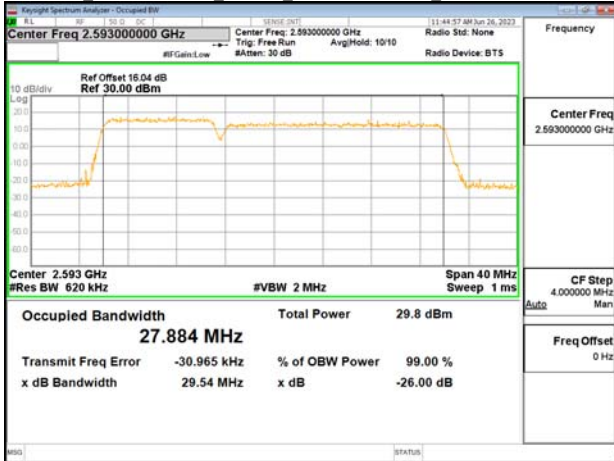
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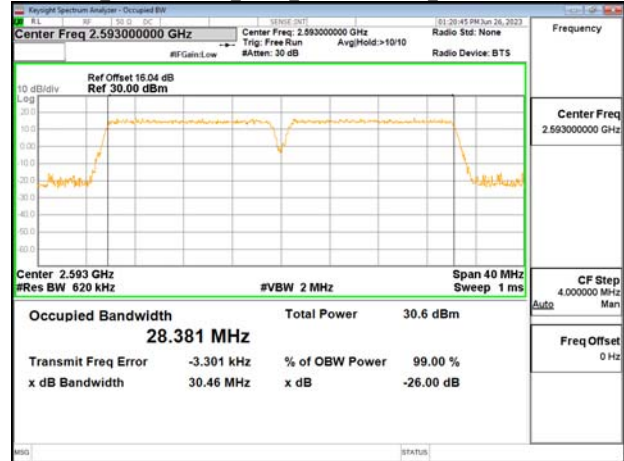
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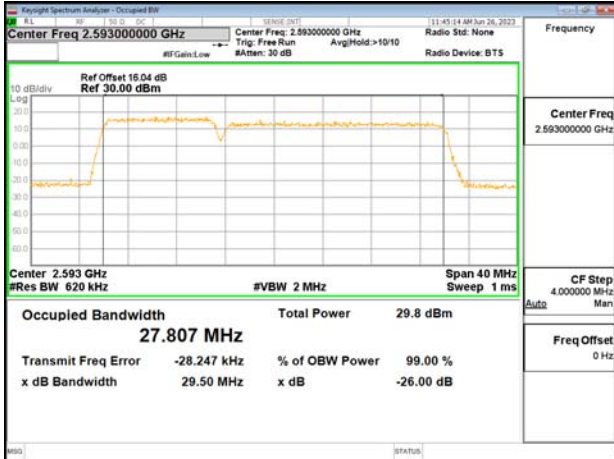
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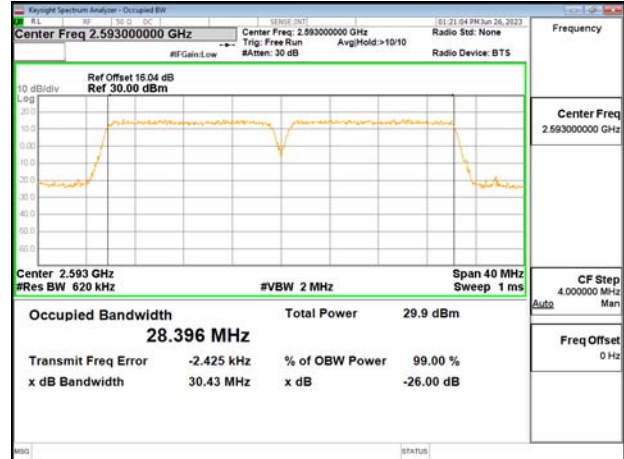
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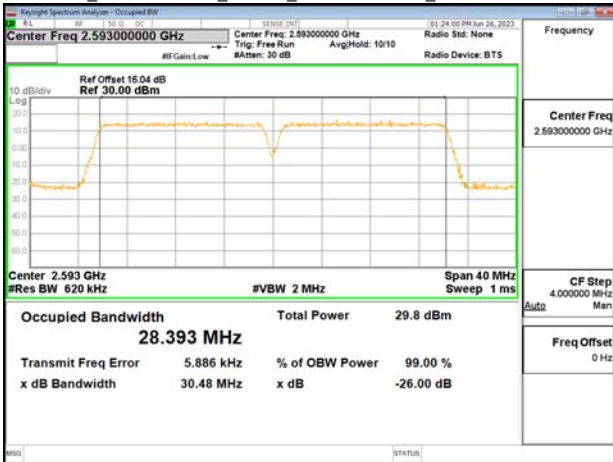


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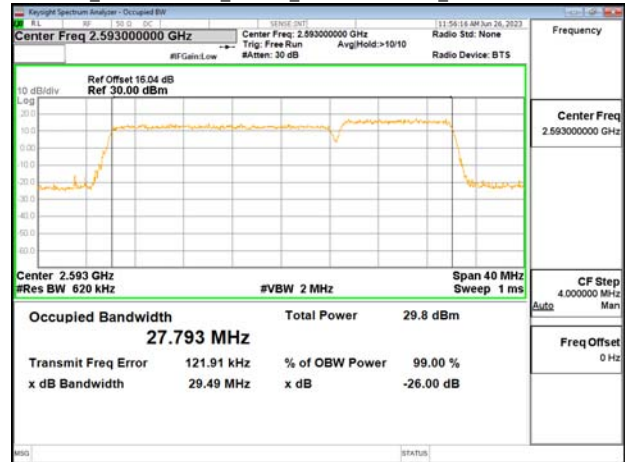
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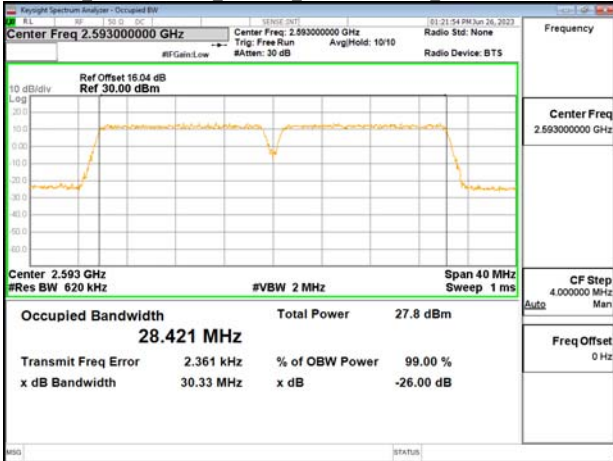
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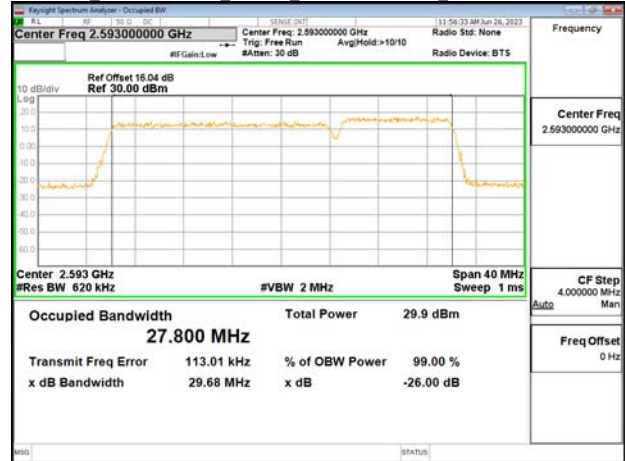
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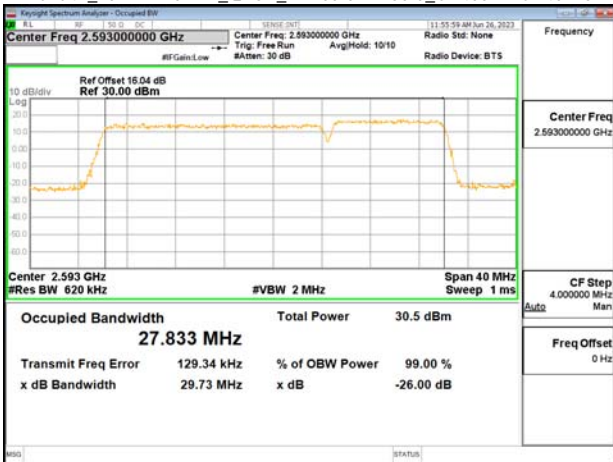
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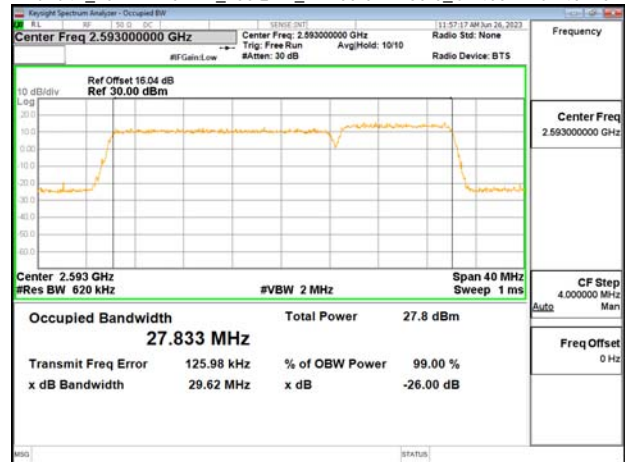
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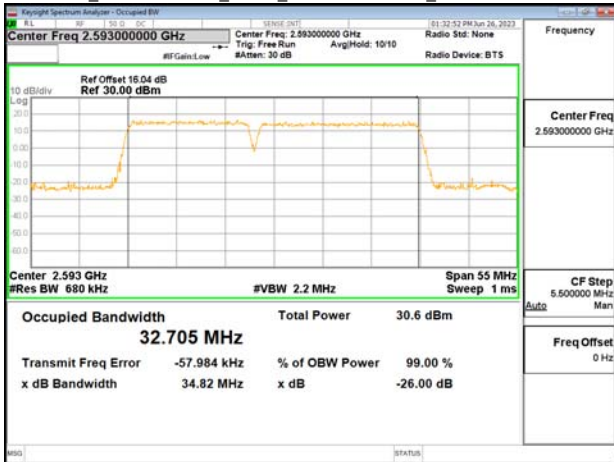


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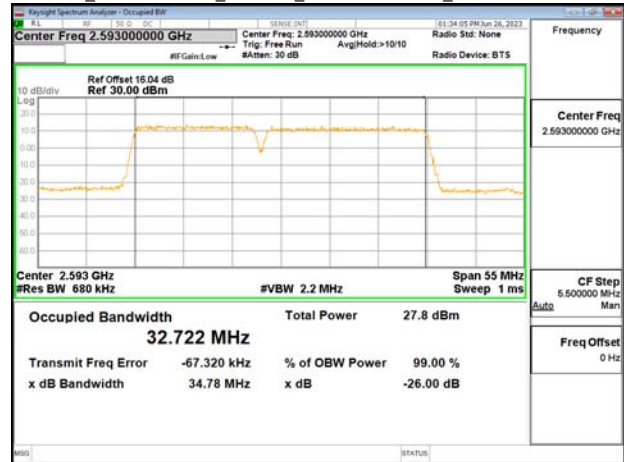
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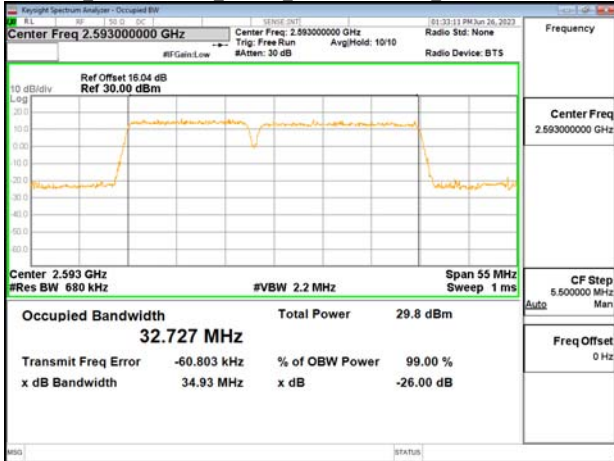
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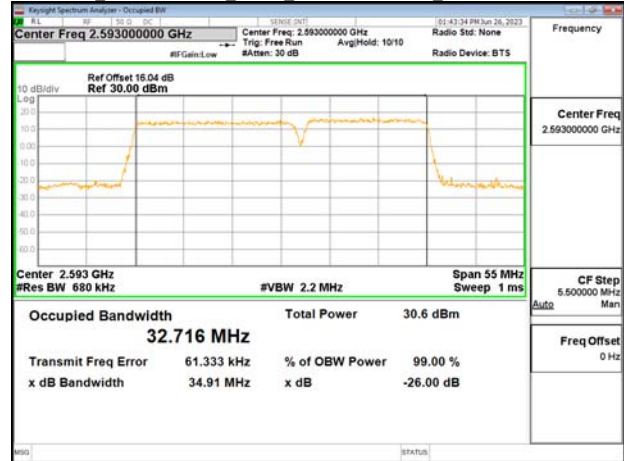
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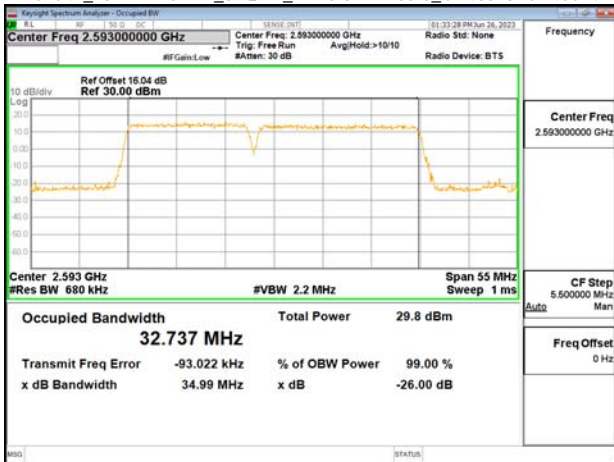
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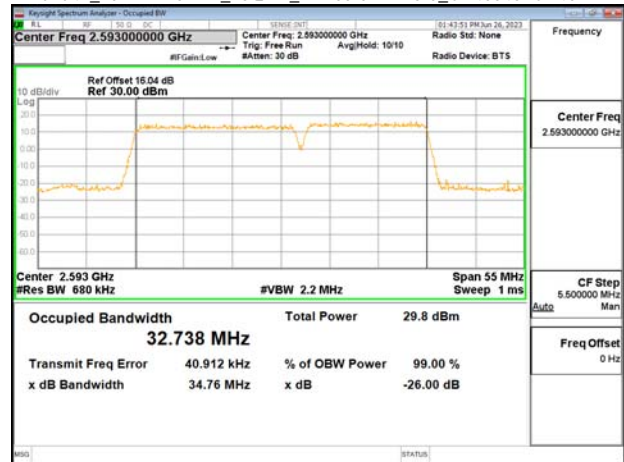
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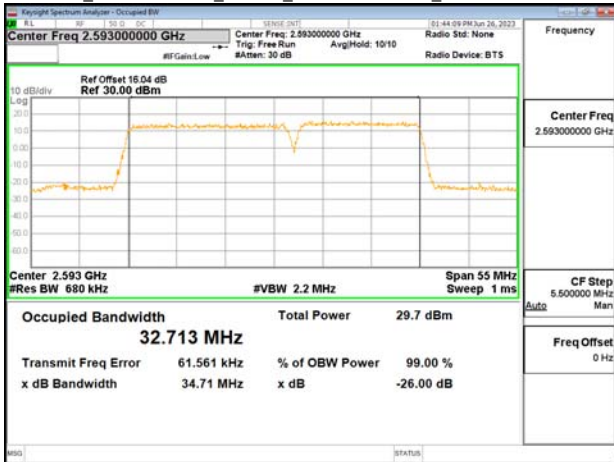


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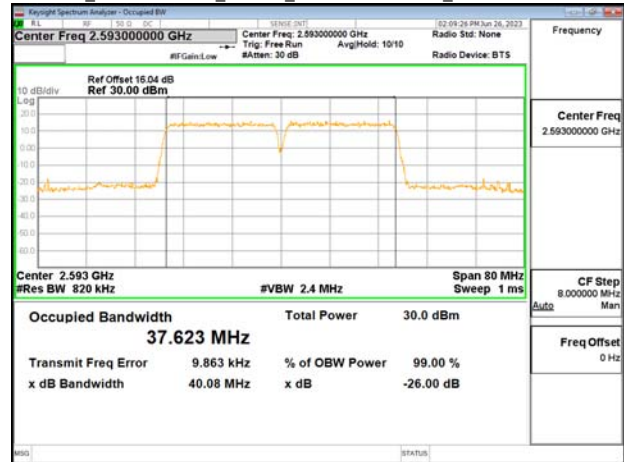
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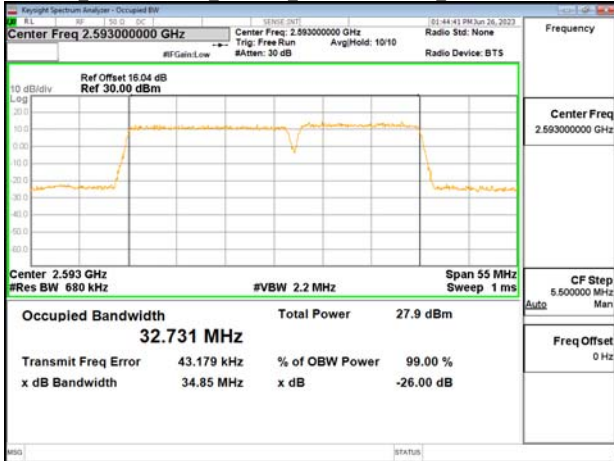
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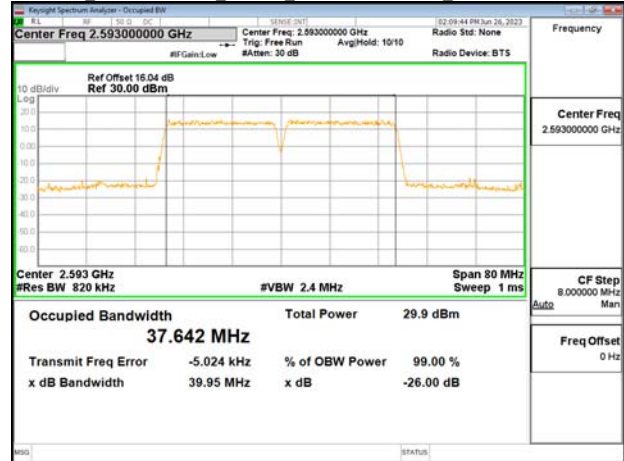
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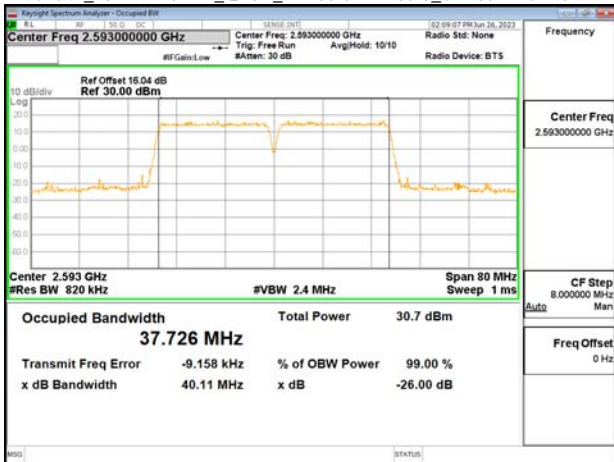
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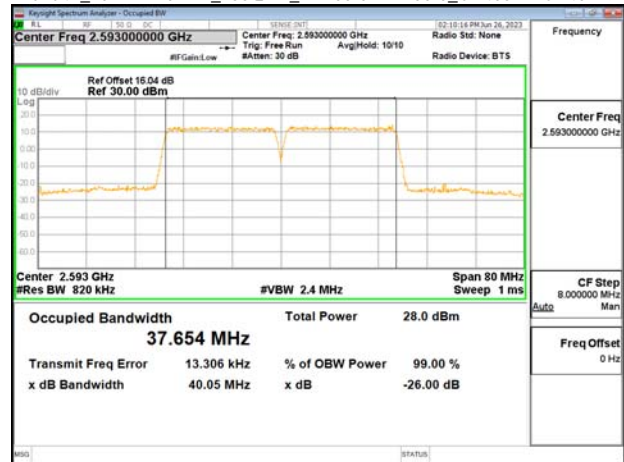
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Band41_20MHz+20MHz_256QAM_RB100-0+RB100-0_CH40521+CH40719



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9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 Standard Applicable

FCC §24.238(a), §27.53(h),

Out of band 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 $43 + 10$

FCC §27.53(m) (4) (6)

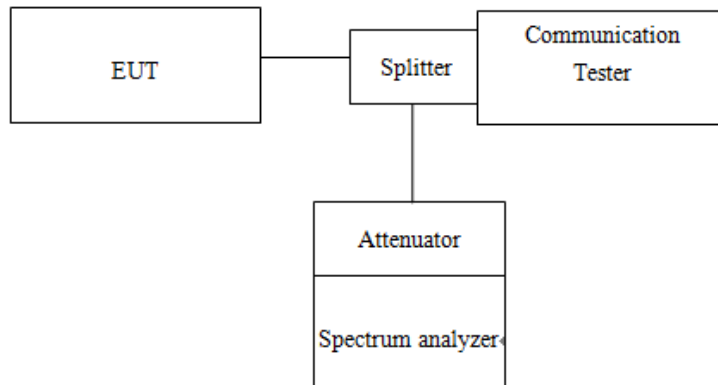
For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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9.2 Test SET-UP



9.3 Measurement Procedure

9.3.1 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.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.3.2 Band Edge or Mask

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.

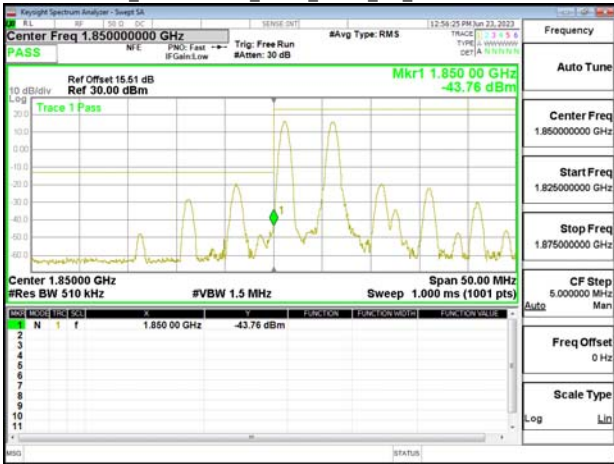
9.4 Band Edge Measurement Result:

Refer to next pages.

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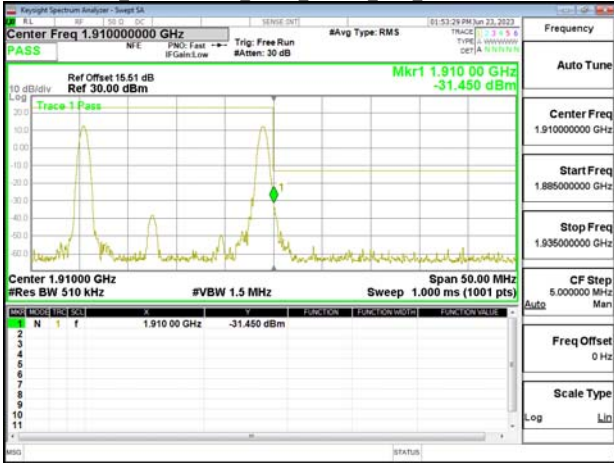
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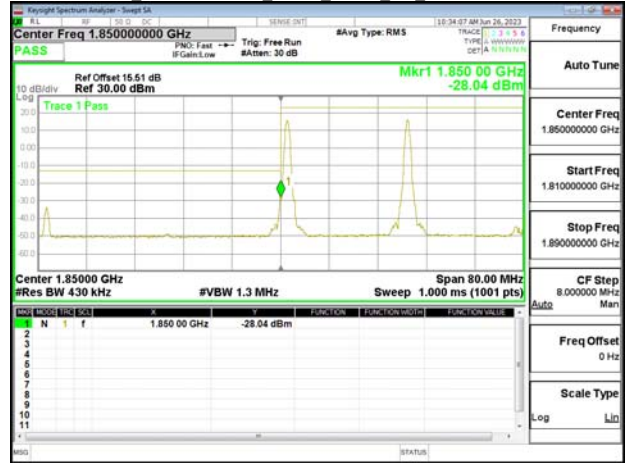
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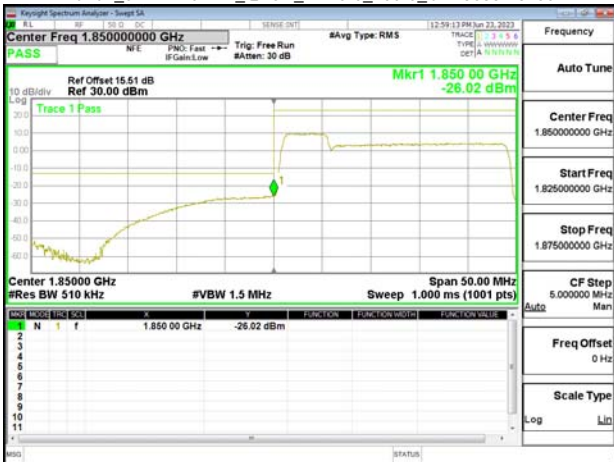
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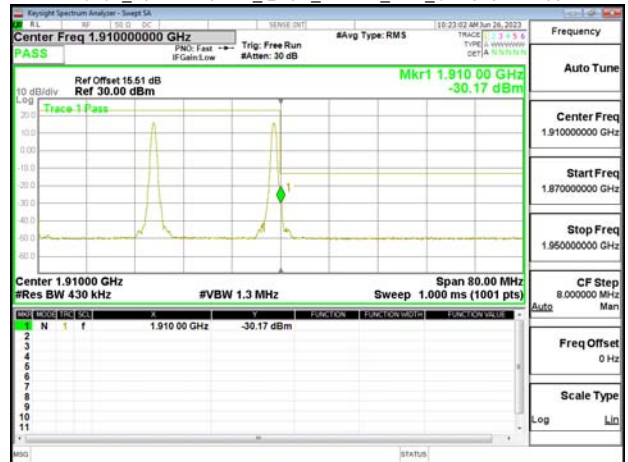
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Band2_5MHz+20MHz_OPSK_RB25-0_100-0_CH18633-18750



Band2_20MHz+20MHz_OPSK_RB1-99_1-99_CH18902-19100



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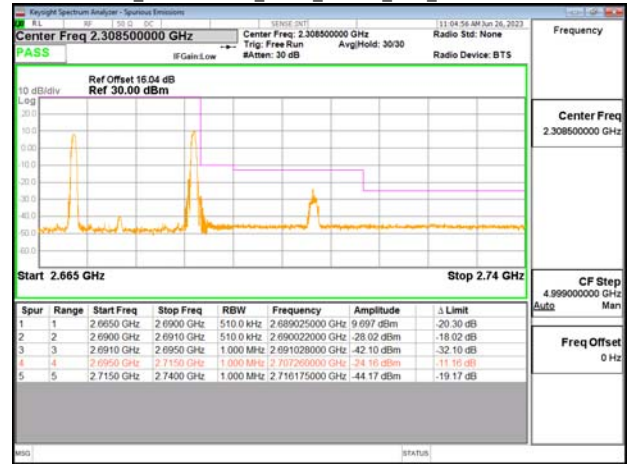
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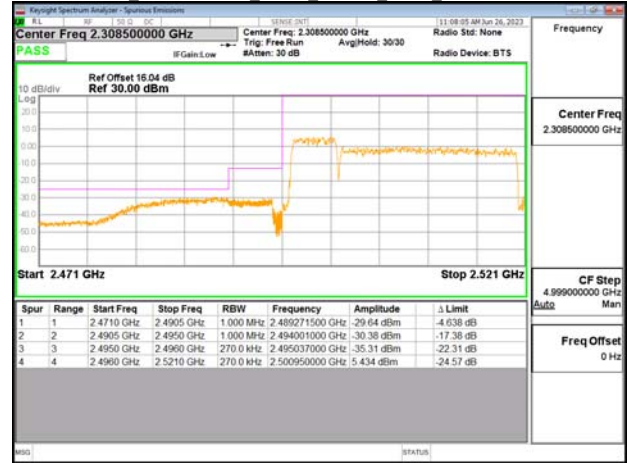
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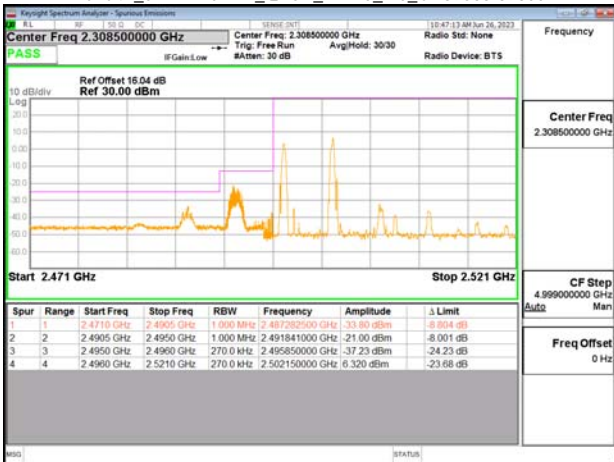
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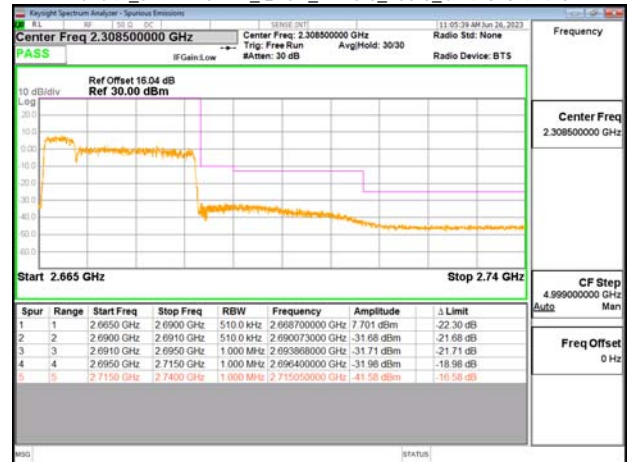
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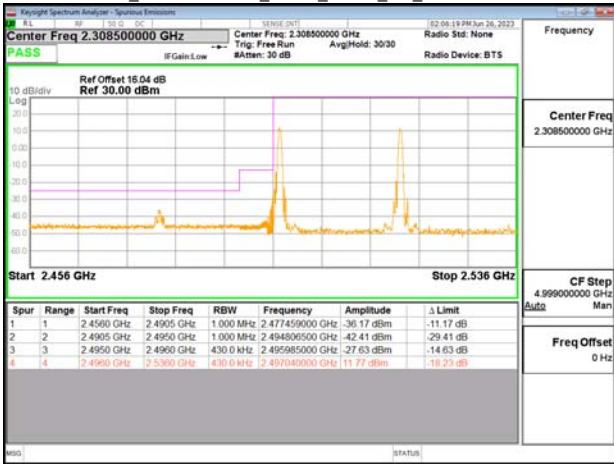


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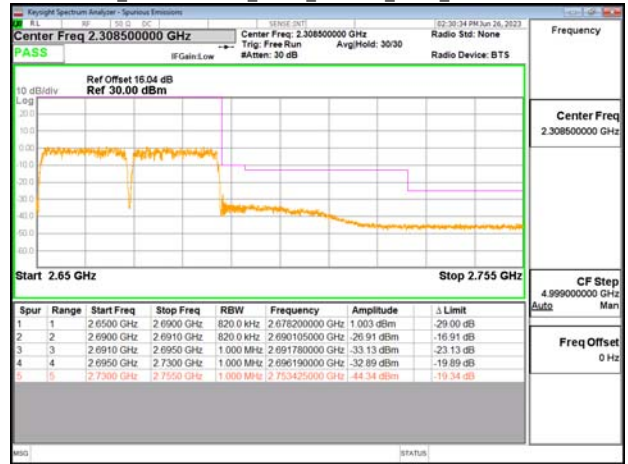
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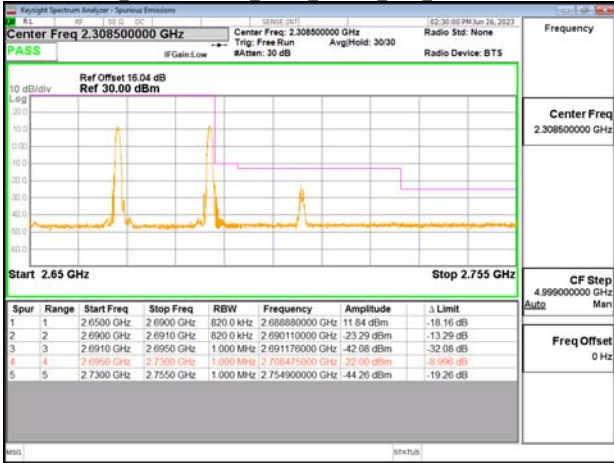
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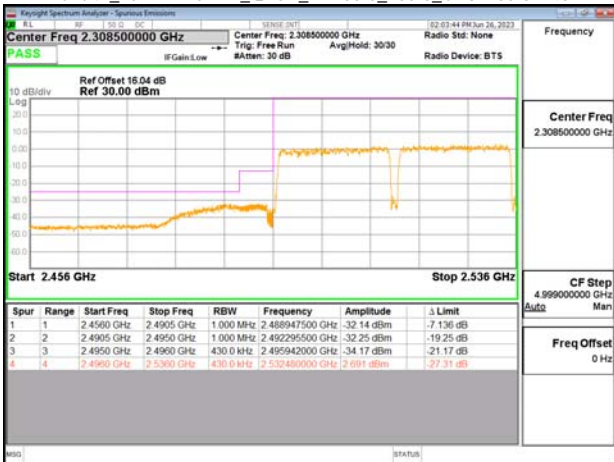
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Band41_20MHz+20MHz_QPSK_RB1-99_1-99_CH41292-41490



Band41_20MHz+20MHz_QPSK_RB100-0_100-0_CH39750-39948



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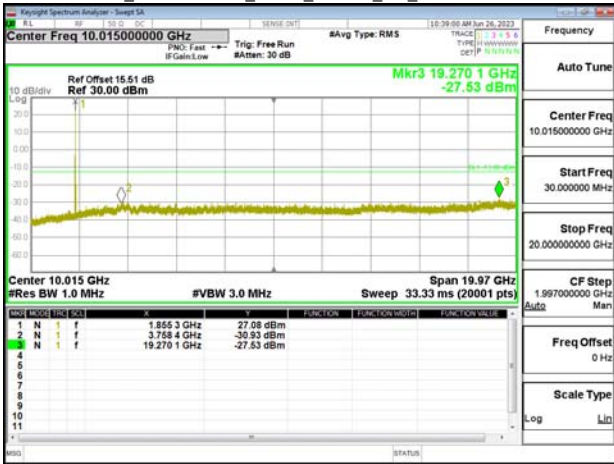
9.5 Spurious Emission Measurement Result:

Refer to next pages.

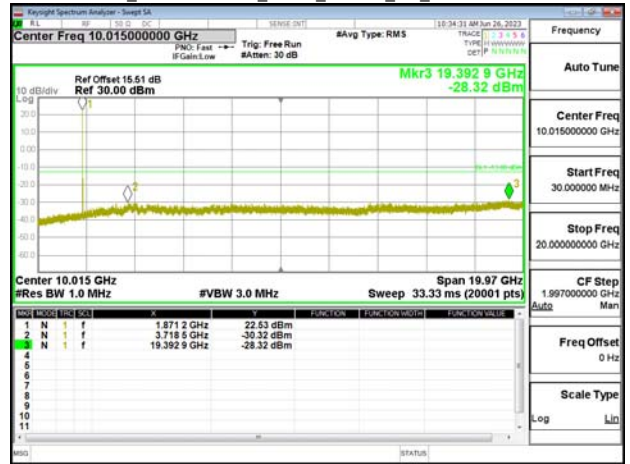
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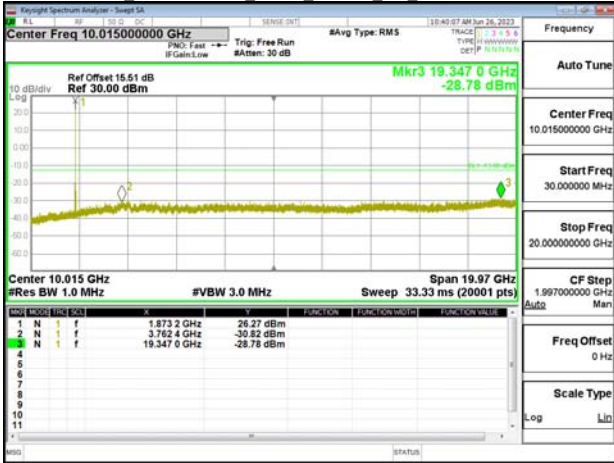
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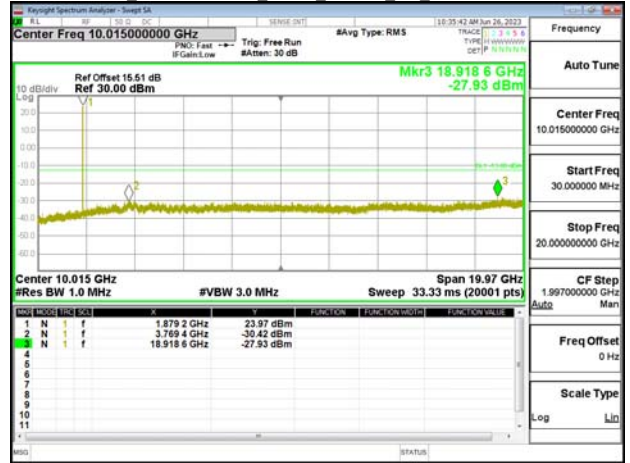
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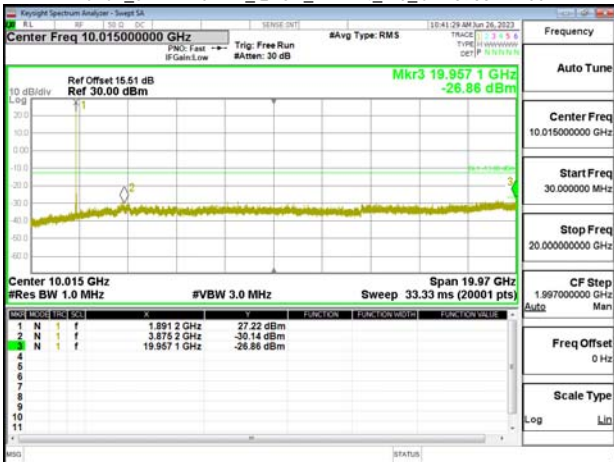
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Band2_20MHz+20MHz_QPSK_RB1-99_1-0_CH18902-19100

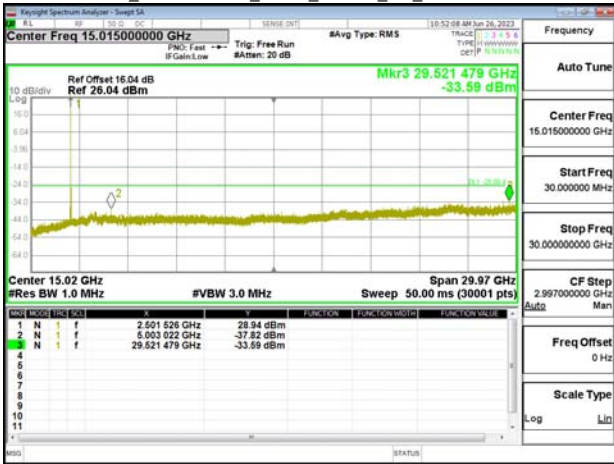


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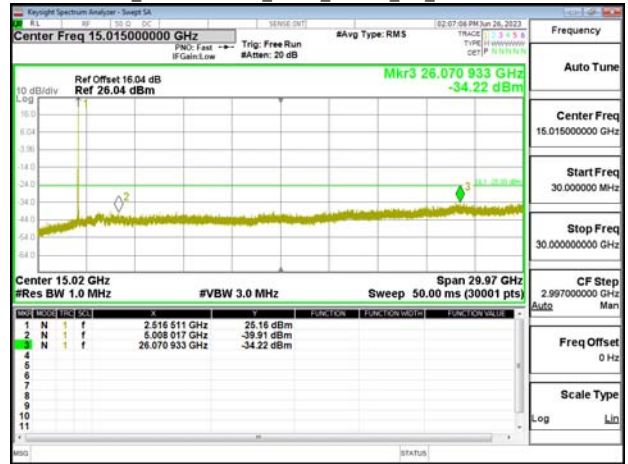
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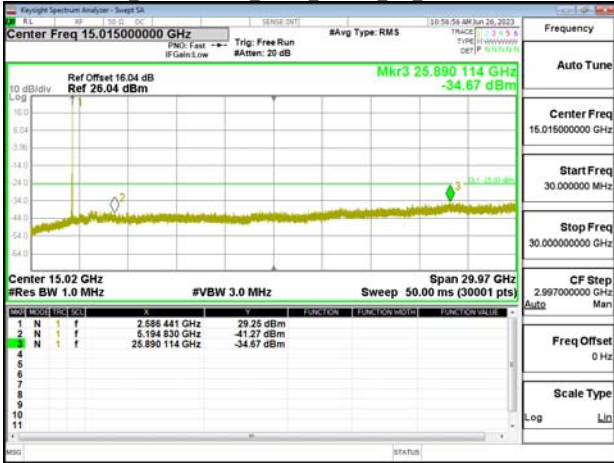
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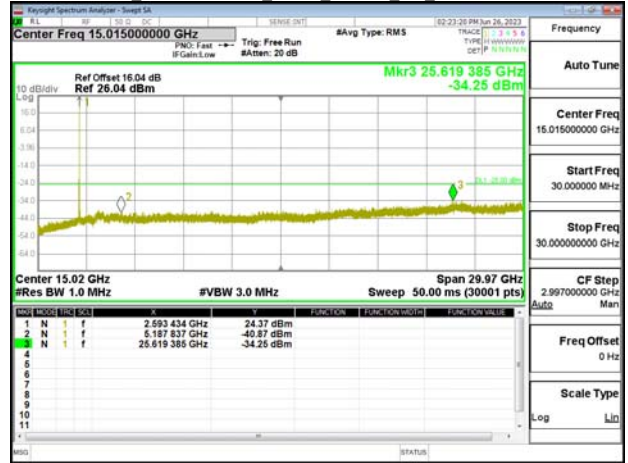
Band41_20MHz+20MHz_QPSK_RB1-99_1-0_CH39750-39948



Band41_5MHz+20MHz_QPSK_RB1-24_1-0_CH40528-40645



Band41_20MHz+20MHz_QPSK_RB1-99_1-0_CH40521-40719



Band41_5MHz+20MHz_QPSK_RB1-24_1-0_CH41373-41490



Band41_20MHz+20MHz_QPSK_RB1-99_1-0_CH41292-41490



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10 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

Out of band 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.

FCC §27.53(a)

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

- (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
 - (ii) By a factor of not less than $70 + 10 \log(P)$ dB below 2288 MHz;
 - (iii) By a factor of not less than $70 + 10 \log(P)$ dB above 2365 MHz.

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

§90.691 Emission mask requirements for EA-based systems

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

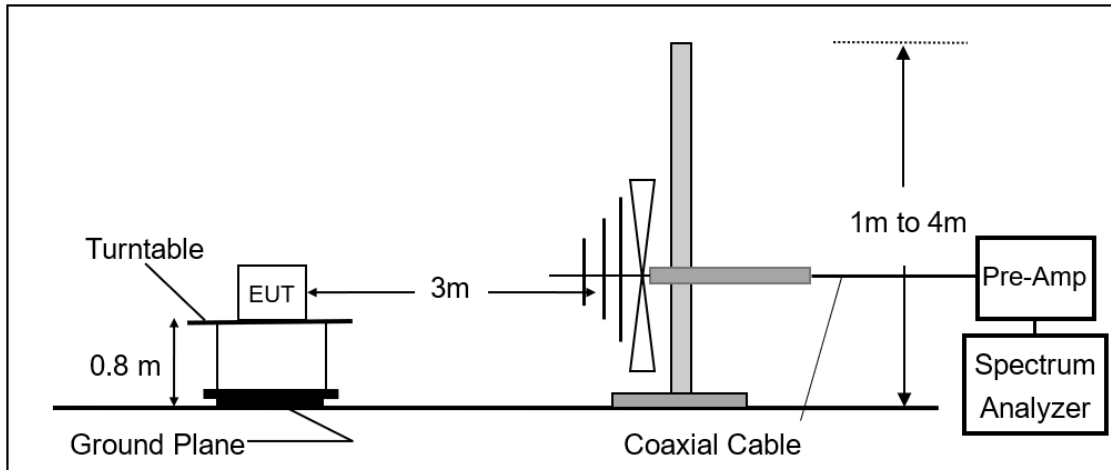
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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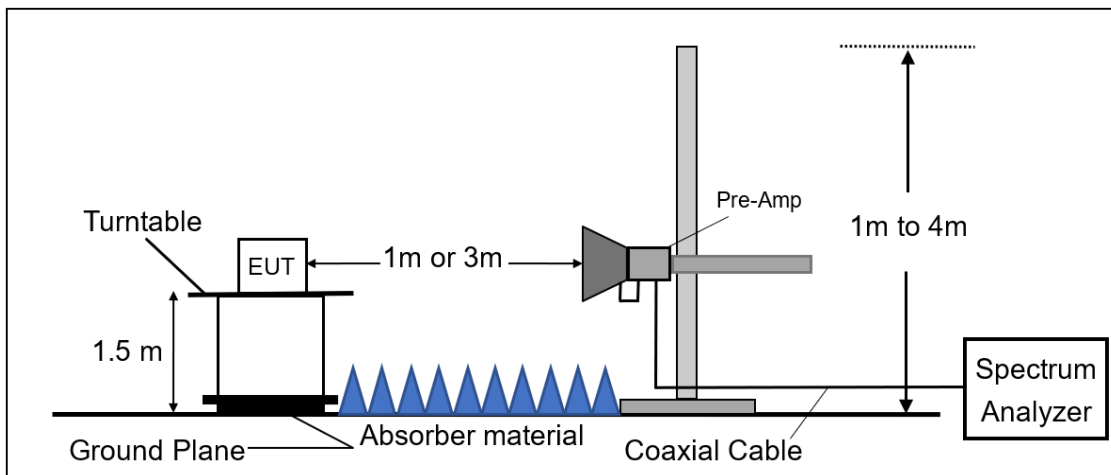
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10.2 EUT Setup

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



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



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10.3 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.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

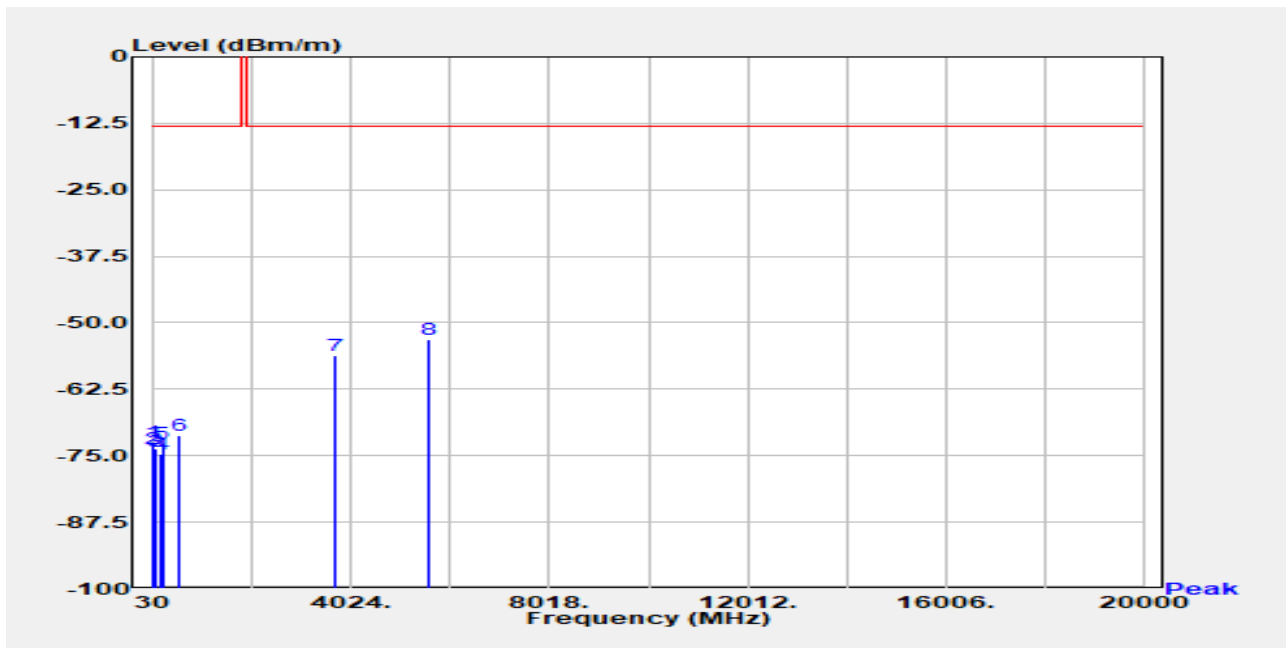
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10.4 Measurement Result:

Report Number :TERF2305001077ER
 Operation Mode :ULCA 2C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1865.85 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-72.33	-60.04	-11.68	-0.61	-13.00	-59.33
75.590	-73.73	-70.48	-2.32	-0.92	-13.00	-60.73
103.720	-74.20	-74.35	1.23	-1.09	-13.00	-61.20
182.290	-74.70	-77.22	3.97	-1.45	-13.00	-61.70
232.730	-72.57	-77.64	6.73	-1.65	-13.00	-59.57
592.600	-71.21	-74.52	6.18	-2.87	-13.00	-58.21
3731.700	-56.14	-61.88	12.40	-6.65	-13.00	-43.14
5597.550	-53.21	-57.91	13.09	-8.39	-13.00	-40.21

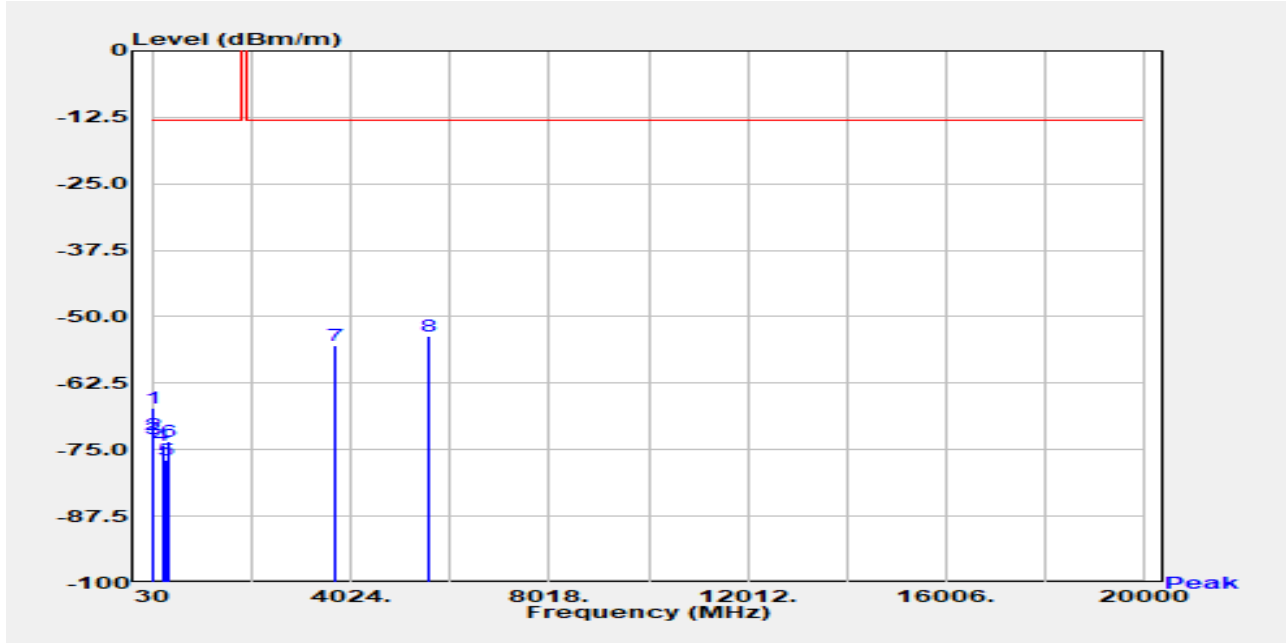
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1865.85 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-67.22	-54.92	-11.68	-0.61	-13.00	-54.22
48.430	-72.06	-61.40	-9.92	-0.75	-13.00	-59.06
64.920	-73.00	-66.03	-6.14	-0.84	-13.00	-60.00
233.700	-74.14	-79.10	6.61	-1.66	-13.00	-61.14
318.090	-76.87	-81.20	6.22	-1.89	-13.00	-63.87
363.680	-73.48	-78.11	6.70	-2.07	-13.00	-60.48
3731.700	-55.38	-61.12	12.40	-6.65	-13.00	-42.38
5597.550	-53.67	-58.37	13.09	-8.39	-13.00	-40.67

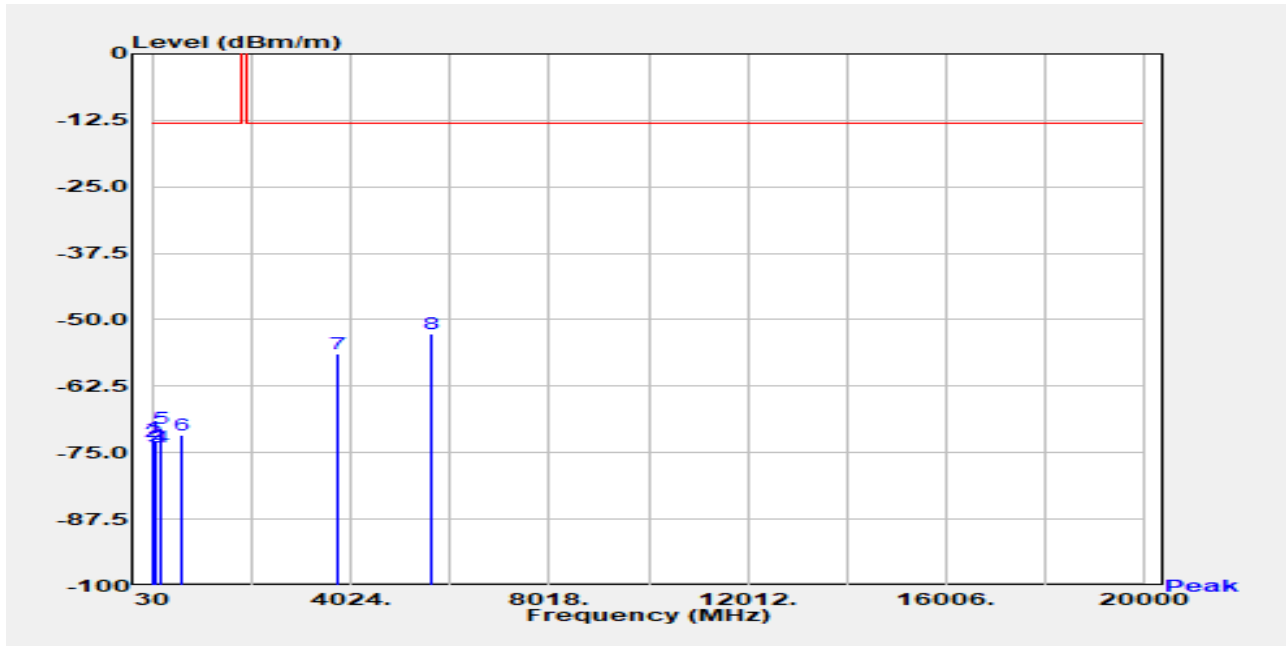
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1883.35 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-72.09	-59.80	-11.68	-0.61	-13.00	-59.09
75.590	-73.05	-69.81	-2.32	-0.92	-13.00	-60.05
103.720	-74.06	-74.21	1.23	-1.09	-13.00	-61.06
187.140	-73.95	-77.07	4.60	-1.48	-13.00	-60.95
231.760	-70.40	-75.60	6.84	-1.64	-13.00	-57.40
604.240	-71.64	-75.16	6.07	-2.56	-13.00	-58.64
3766.700	-56.34	-61.97	12.33	-6.70	-13.00	-43.34
5650.050	-52.60	-57.37	13.20	-8.43	-13.00	-39.60

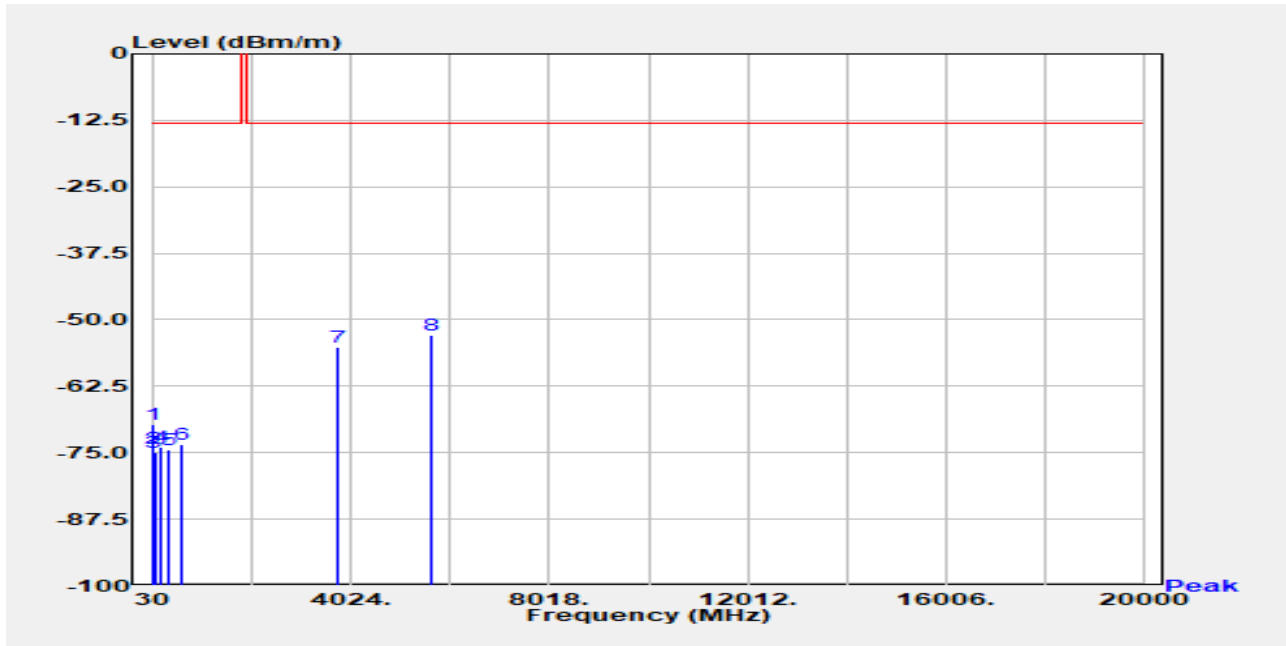
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1883.35 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.730	-69.70	-58.46	-10.56	-0.68	-13.00	-56.70
62.980	-74.19	-66.79	-6.59	-0.81	-13.00	-61.19
75.590	-74.87	-71.63	-2.32	-0.92	-13.00	-61.87
230.790	-73.92	-79.25	6.96	-1.64	-13.00	-60.92
366.590	-74.41	-78.98	6.65	-2.08	-13.00	-61.41
604.240	-73.52	-77.03	6.07	-2.56	-13.00	-60.52
3766.700	-55.02	-60.65	12.33	-6.70	-13.00	-42.02
5650.050	-52.82	-57.59	13.20	-8.43	-13.00	-39.82

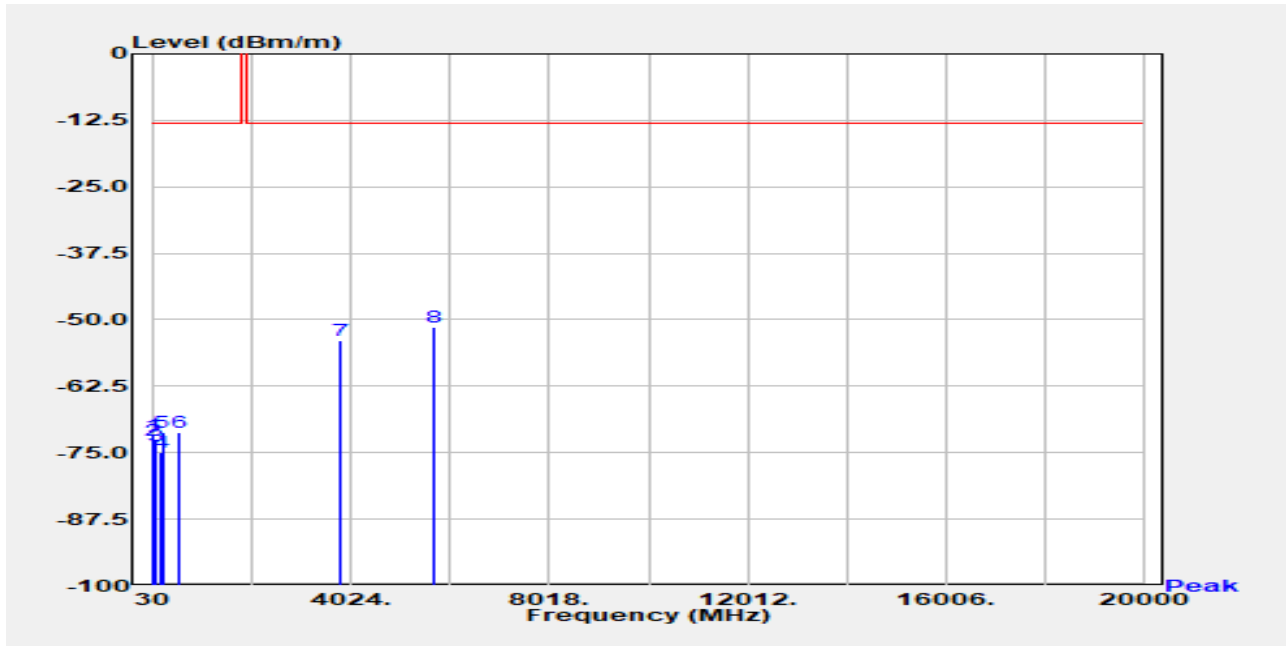
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900.85 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.67	-59.38	-11.68	-0.61	-13.00	-58.67
75.590	-72.70	-69.45	-2.32	-0.92	-13.00	-59.70
102.750	-73.56	-73.85	1.37	-1.08	-13.00	-60.56
186.170	-74.88	-77.94	4.53	-1.47	-13.00	-61.88
232.730	-71.16	-76.23	6.73	-1.65	-13.00	-58.16
552.830	-71.29	-75.47	6.67	-2.50	-13.00	-58.29
3801.700	-53.80	-59.25	12.20	-6.75	-13.00	-40.80
5702.550	-51.36	-55.89	12.99	-8.47	-13.00	-38.36

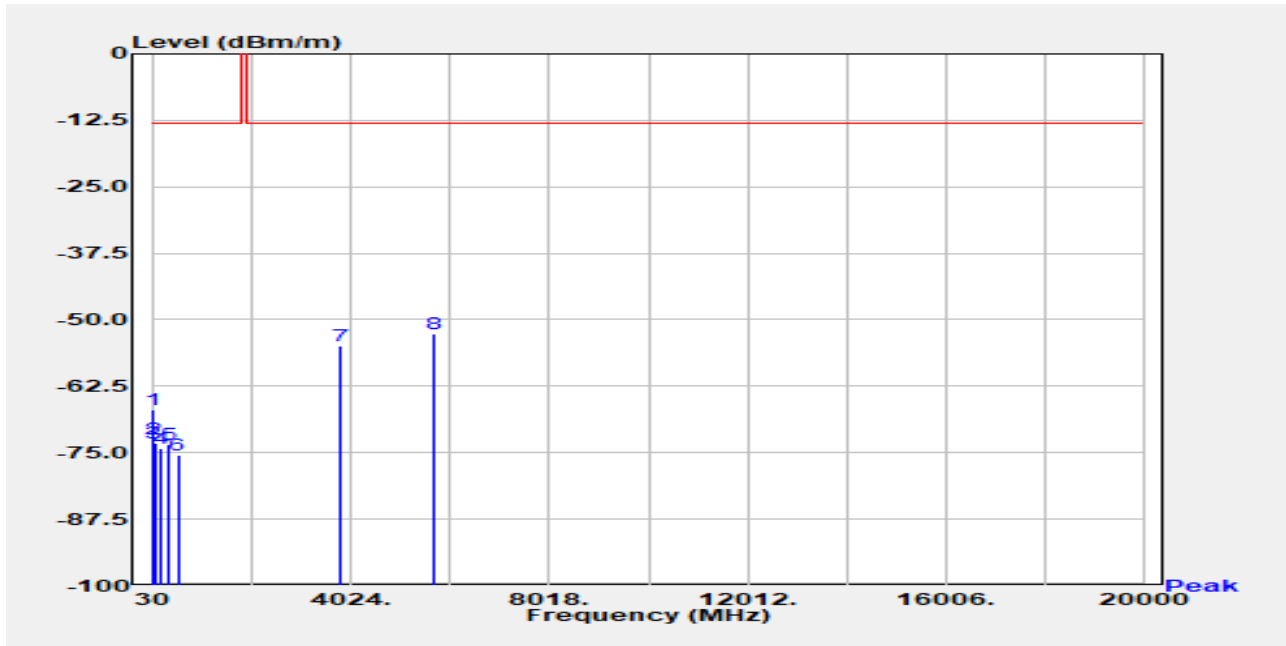
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900.85 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



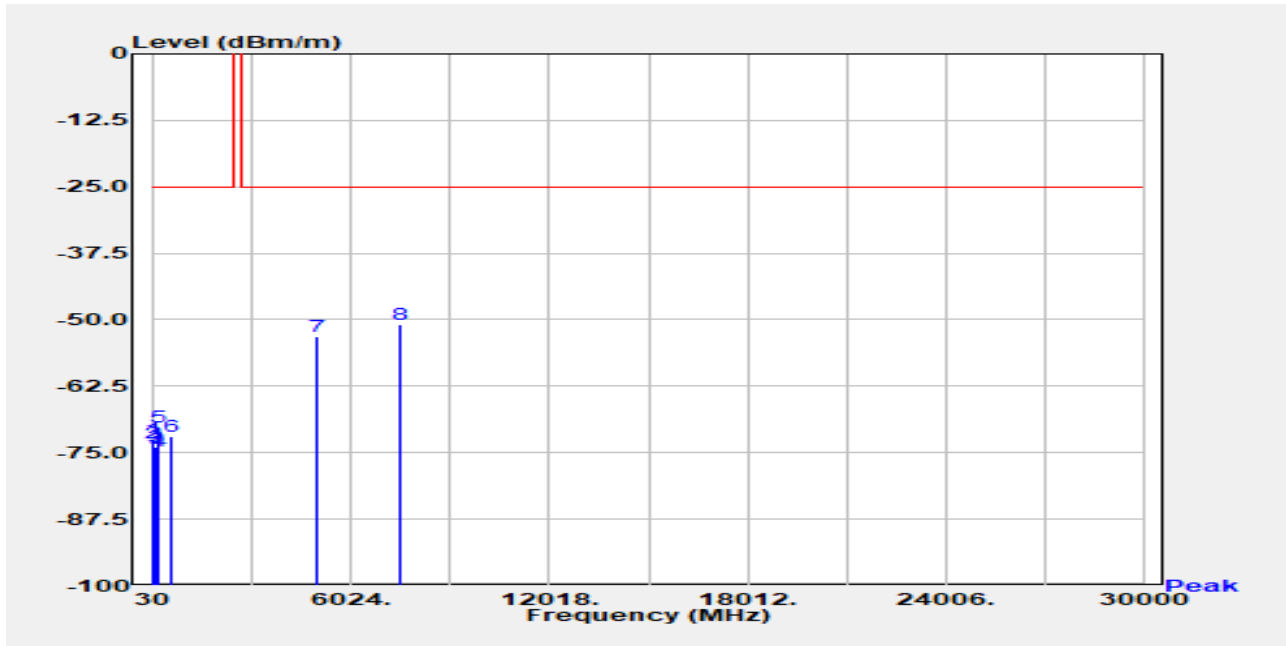
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-66.95	-54.66	-11.68	-0.61	-13.00	-53.95
62.010	-72.52	-64.80	-6.92	-0.80	-13.00	-59.52
75.590	-73.23	-69.98	-2.32	-0.92	-13.00	-60.23
229.820	-74.06	-79.50	7.07	-1.63	-13.00	-61.06
368.530	-73.38	-77.91	6.62	-2.09	-13.00	-60.38
547.010	-75.44	-79.75	6.69	-2.37	-13.00	-62.44
3801.700	-54.91	-60.36	12.20	-6.75	-13.00	-41.91
5702.550	-52.72	-57.24	12.99	-8.47	-13.00	-39.72

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Report Number :TERF2305001077ER
 Operation Mode :ULCA 41C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :2505.15 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-72.40	-60.11	-11.68	-0.61	-25.00	-47.40
75.590	-73.14	-69.89	-2.32	-0.92	-25.00	-48.14
103.720	-73.86	-74.01	1.23	-1.09	-25.00	-48.86
186.170	-74.57	-77.62	4.53	-1.47	-25.00	-49.57
232.730	-70.13	-75.21	6.73	-1.65	-25.00	-45.13
595.510	-71.98	-75.36	6.12	-2.74	-25.00	-46.98
5010.300	-53.12	-57.66	12.48	-7.94	-25.00	-28.12
7515.450	-50.94	-52.22	11.06	-9.78	-25.00	-25.94

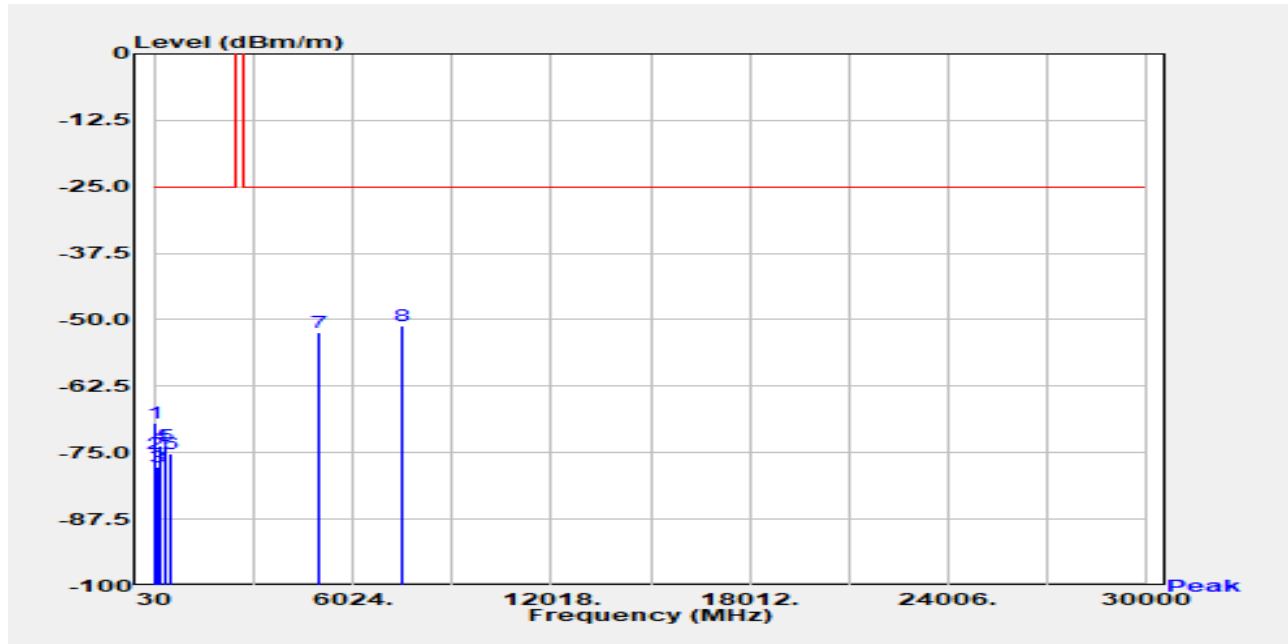
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 Operation Mode :ULCA 41C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :2505.15 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-69.45	-57.52	-11.30	-0.63	-25.00	-44.45
64.920	-75.09	-68.11	-6.14	-0.84	-25.00	-50.09
106.630	-77.73	-77.70	1.06	-1.10	-25.00	-52.73
232.730	-73.64	-78.72	6.73	-1.65	-25.00	-48.64
363.680	-73.75	-78.38	6.70	-2.07	-25.00	-48.75
556.710	-75.27	-79.22	6.61	-2.67	-25.00	-50.27
5010.300	-52.50	-57.04	12.48	-7.94	-25.00	-27.50
7515.450	-51.07	-52.35	11.06	-9.78	-25.00	-26.07

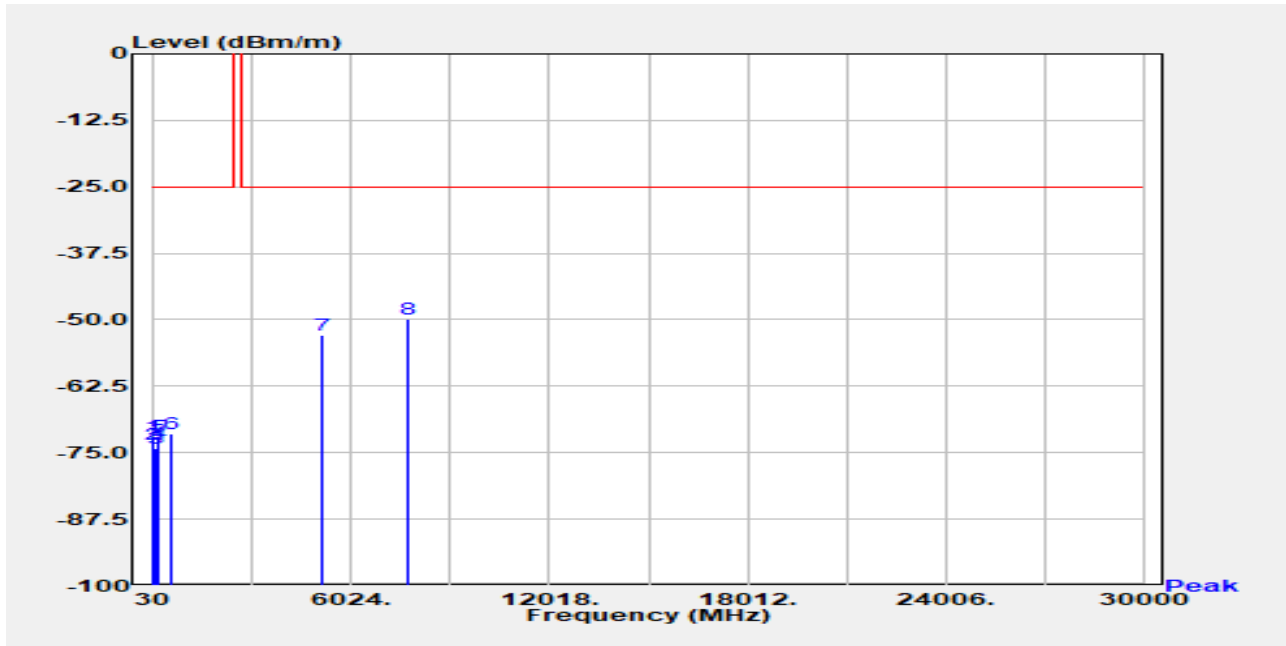
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 41C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :2589.65 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-71.81	-59.38	-11.84	-0.60	-25.00	-46.81
75.590	-73.35	-70.10	-2.32	-0.92	-25.00	-48.35
101.780	-74.30	-74.52	1.30	-1.08	-25.00	-49.30
187.140	-73.28	-76.40	4.60	-1.48	-25.00	-48.28
230.790	-71.88	-77.21	6.96	-1.64	-25.00	-46.88
591.630	-71.54	-74.84	6.21	-2.92	-25.00	-46.54
5179.300	-52.93	-57.28	12.32	-7.97	-25.00	-27.93
7768.950	-49.93	-51.34	11.50	-10.09	-25.00	-24.93

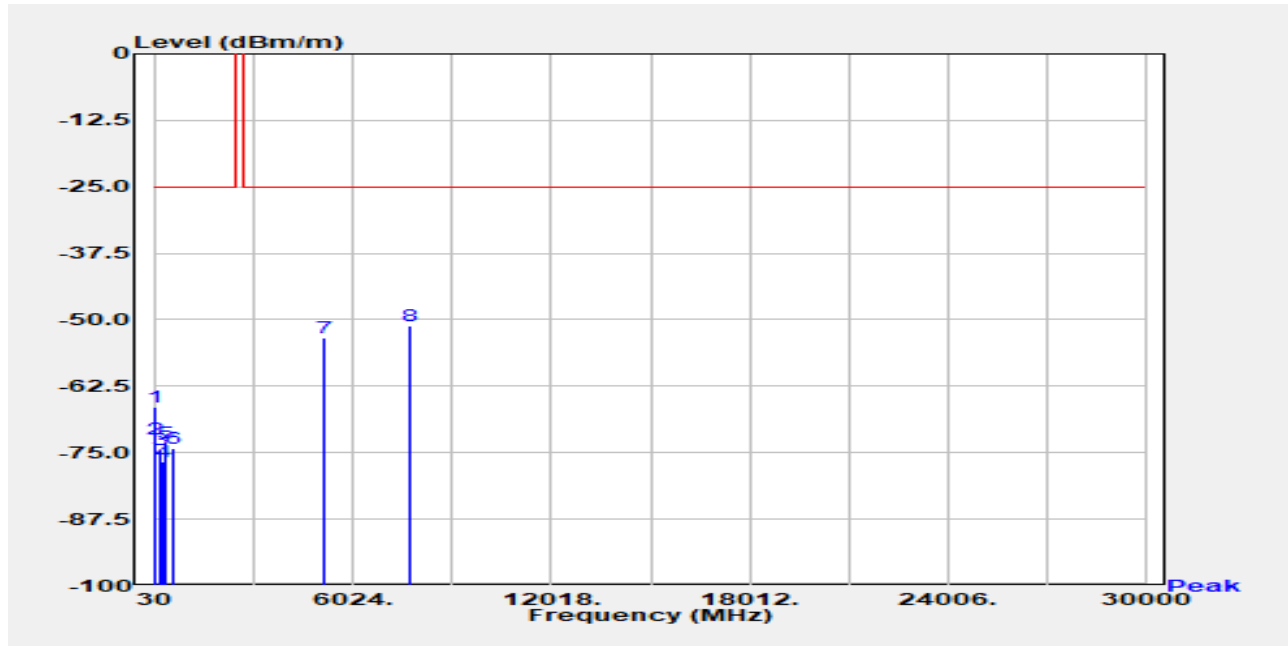
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 41C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :2589.65 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-66.44	-54.67	-11.13	-0.64	-25.00	-41.44
64.920	-72.46	-65.48	-6.14	-0.84	-25.00	-47.46
229.820	-74.54	-79.98	7.07	-1.63	-25.00	-49.54
321.970	-76.66	-80.98	6.21	-1.89	-25.00	-51.66
368.530	-73.13	-77.66	6.62	-2.09	-25.00	-48.13
594.540	-74.30	-77.65	6.13	-2.78	-25.00	-49.30
5179.300	-53.46	-57.81	12.32	-7.97	-25.00	-28.46
7768.950	-51.10	-52.51	11.50	-10.09	-25.00	-26.10

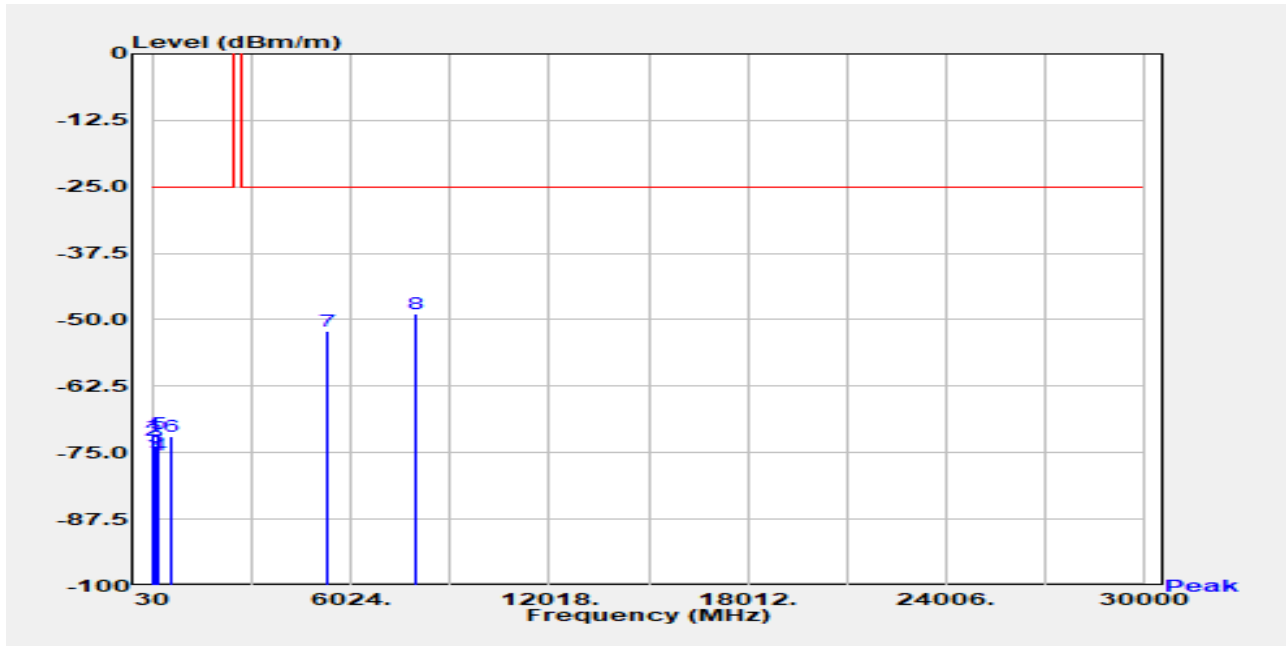
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 41C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :2674.15 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.73	-59.43	-11.68	-0.61	-25.00	-46.73
75.590	-72.65	-69.41	-2.32	-0.92	-25.00	-47.65
103.720	-73.82	-73.97	1.23	-1.09	-25.00	-48.82
189.080	-75.39	-78.97	5.07	-1.49	-25.00	-50.39
233.700	-71.33	-76.28	6.61	-1.66	-25.00	-46.33
587.750	-71.87	-75.18	6.26	-2.95	-25.00	-46.87
5348.300	-52.06	-57.07	13.20	-8.18	-25.00	-27.06
8022.450	-48.91	-49.63	10.79	-10.07	-25.00	-23.91

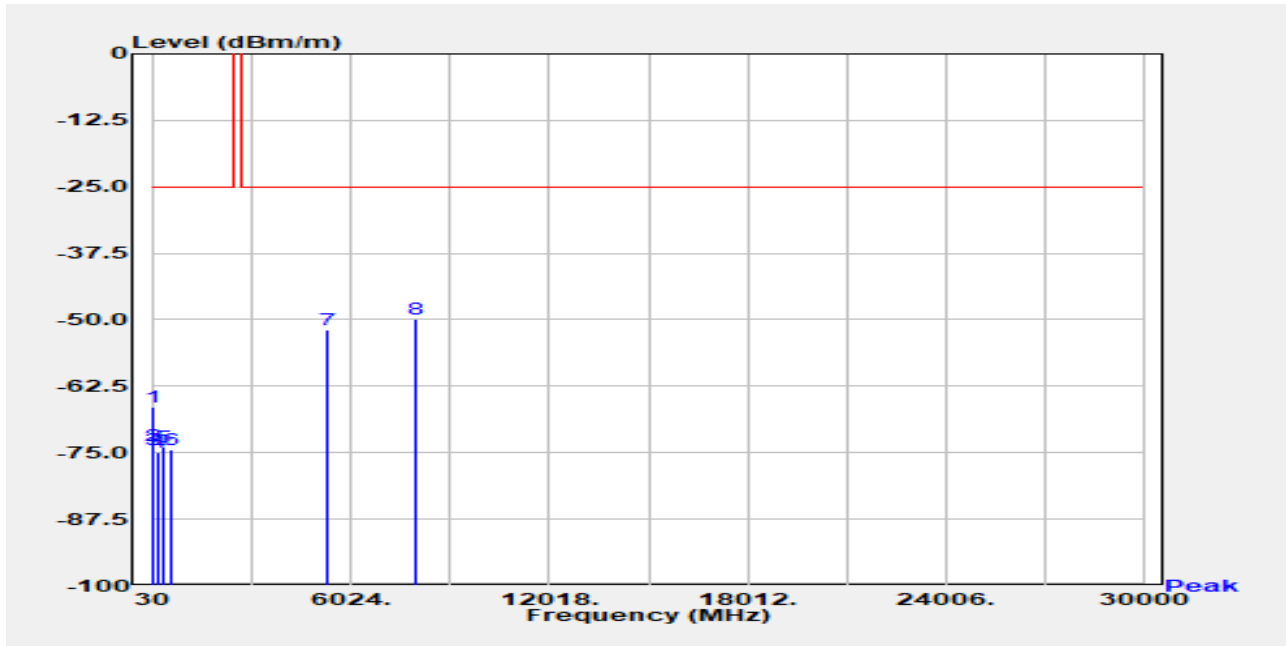
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 41C
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :2674.15 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-66.50	-54.73	-11.13	-0.64	-25.00	-41.50
67.830	-73.68	-67.47	-5.34	-0.87	-25.00	-48.68
74.620	-74.45	-70.84	-2.69	-0.92	-25.00	-49.45
229.820	-74.97	-80.41	7.07	-1.63	-25.00	-49.97
365.620	-74.06	-78.65	6.67	-2.08	-25.00	-49.06
597.450	-74.41	-77.86	6.11	-2.65	-25.00	-49.41
5348.300	-51.80	-56.81	13.20	-8.18	-25.00	-26.80
8022.450	-49.88	-50.60	10.79	-10.07	-25.00	-24.88

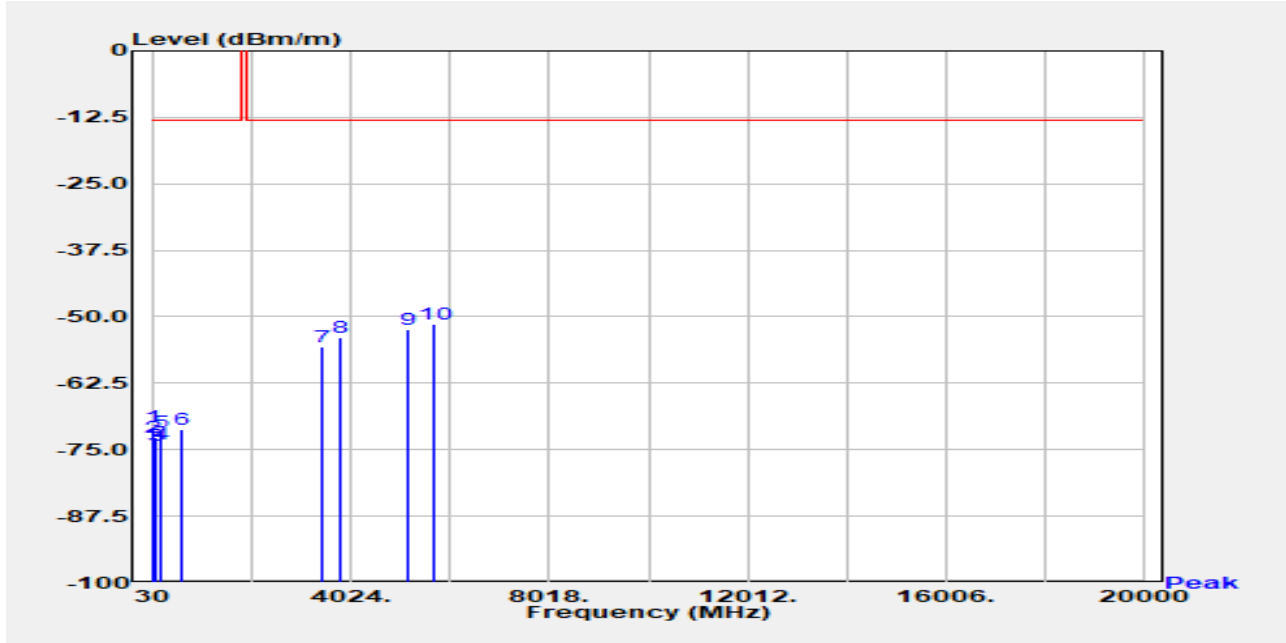
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_4A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_1732.5 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-70.72	-58.43	-11.68	-0.61	-13.00	-57.72
75.590	-72.76	-69.51	-2.32	-0.92	-13.00	-59.76
103.720	-74.30	-74.45	1.23	-1.09	-13.00	-61.30
187.140	-73.90	-77.02	4.60	-1.48	-13.00	-60.90
228.850	-71.68	-77.18	7.13	-1.62	-13.00	-58.68
602.300	-71.19	-74.72	6.08	-2.55	-13.00	-58.19
3465.000	-55.54	-61.55	12.37	-6.37	-13.00	-42.54
3800.000	-53.83	-59.28	12.20	-6.75	-13.00	-40.83
5197.500	-52.41	-56.83	12.39	-7.97	-13.00	-39.41
5700.000	-51.33	-55.86	13.00	-8.47	-13.00	-38.33

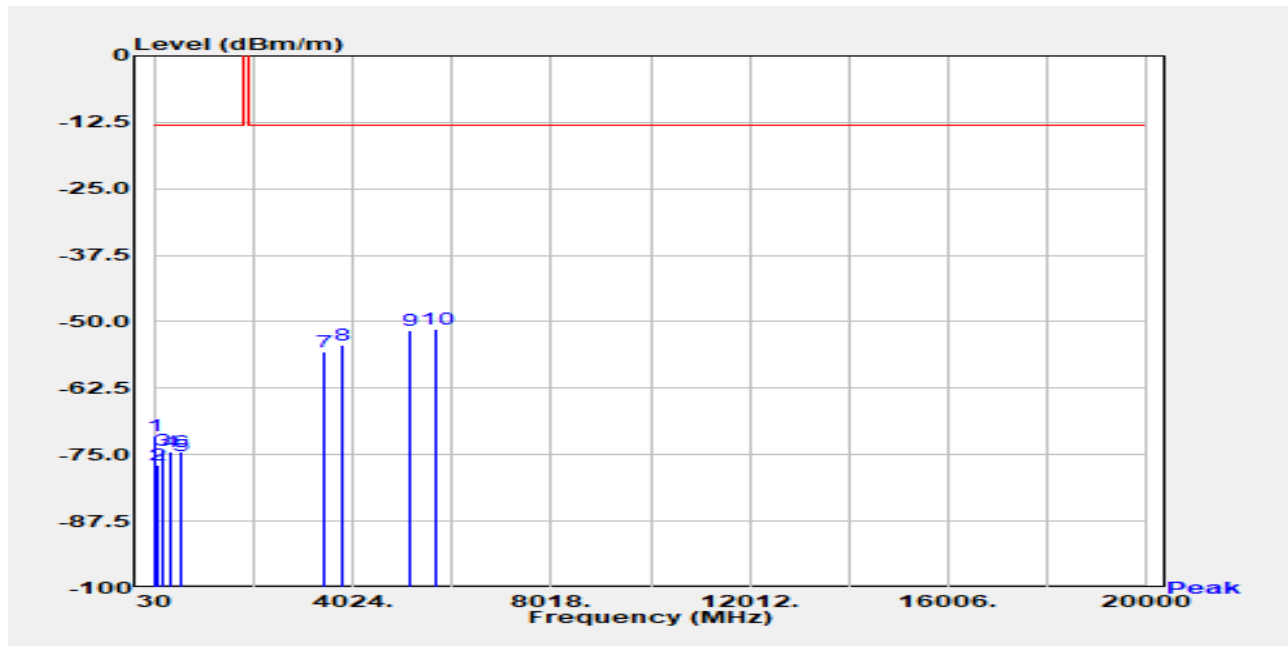
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_4A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_1732.5 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.910	-71.47	-59.79	-11.06	-0.62	-13.00	-58.47
106.630	-76.82	-76.79	1.06	-1.10	-13.00	-63.82
230.790	-74.12	-79.45	6.96	-1.64	-13.00	-61.12
372.410	-74.48	-78.89	6.50	-2.09	-13.00	-61.48
550.890	-75.24	-79.55	6.72	-2.41	-13.00	-62.24
583.870	-74.46	-77.89	6.30	-2.87	-13.00	-61.46
3465.000	-55.76	-61.76	12.37	-6.37	-13.00	-42.76
3800.000	-54.26	-59.71	12.20	-6.75	-13.00	-41.26
5197.500	-51.52	-55.94	12.39	-7.97	-13.00	-38.52
5700.000	-51.26	-55.79	13.00	-8.47	-13.00	-38.26

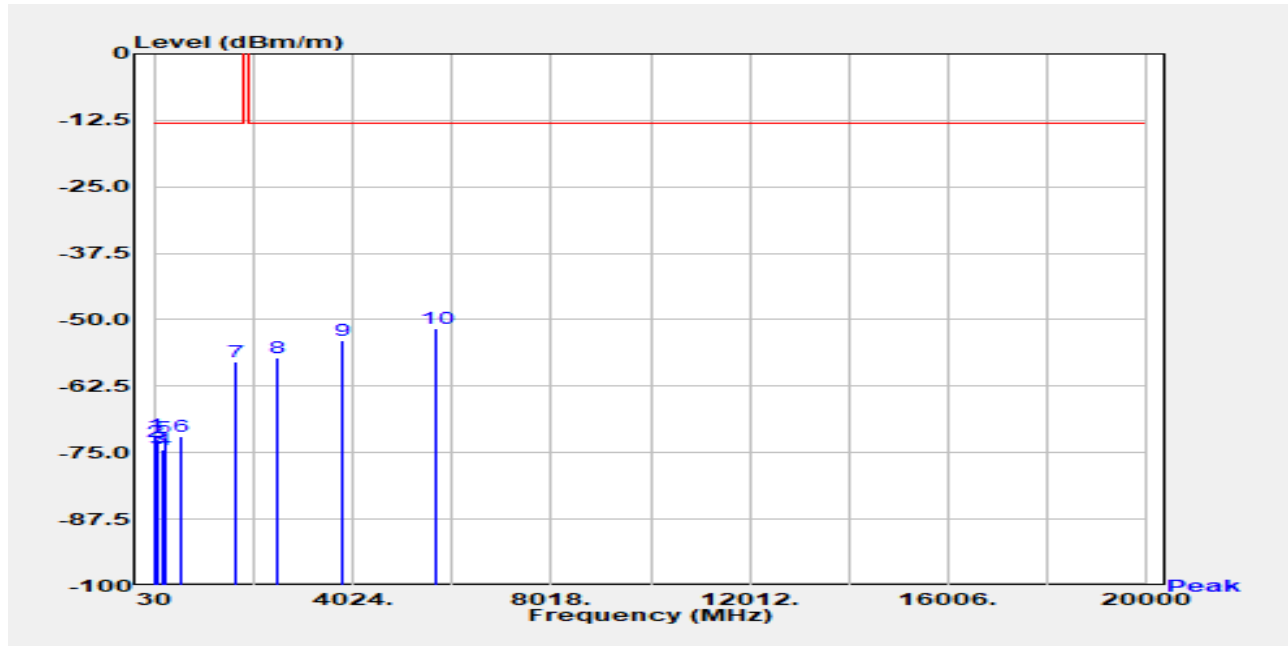
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_5A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_844 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.70	-59.41	-11.68	-0.61	-13.00	-58.70
75.590	-72.98	-69.73	-2.32	-0.92	-13.00	-59.98
100.810	-74.12	-74.38	1.34	-1.07	-13.00	-61.12
187.140	-74.33	-77.46	4.60	-1.48	-13.00	-61.33
232.730	-72.17	-77.25	6.73	-1.65	-13.00	-59.17
549.920	-71.98	-76.35	6.74	-2.37	-13.00	-58.98
1688.000	-57.93	-63.05	9.61	-4.48	-13.00	-44.93
2532.000	-57.05	-62.07	10.60	-5.58	-13.00	-44.05
3800.000	-53.82	-59.27	12.20	-6.75	-13.00	-40.82
5700.000	-51.56	-56.09	13.00	-8.47	-13.00	-38.56

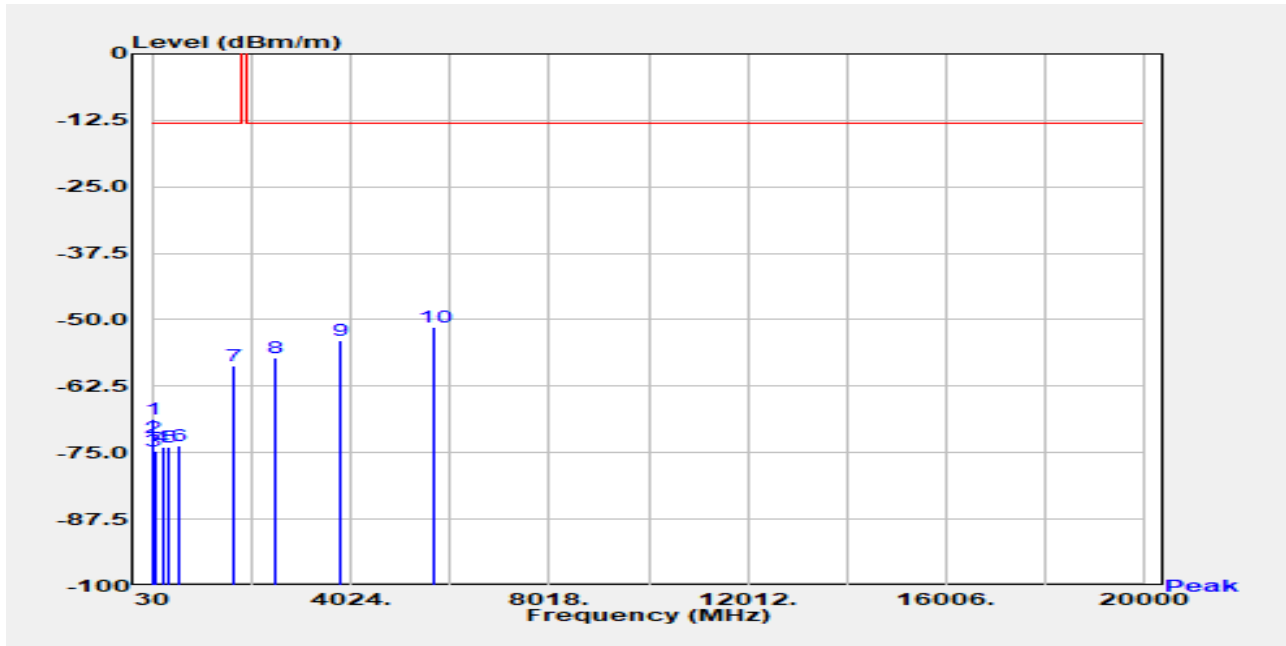
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_5A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_844 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-68.67	-56.74	-11.30	-0.63	-13.00	-55.67
64.920	-72.23	-65.25	-6.14	-0.84	-13.00	-59.23
75.590	-74.60	-71.36	-2.32	-0.92	-13.00	-61.60
232.730	-74.02	-79.09	6.73	-1.65	-13.00	-61.02
375.320	-73.91	-78.22	6.40	-2.09	-13.00	-60.91
548.950	-73.78	-78.13	6.72	-2.37	-13.00	-60.78
1688.000	-58.76	-63.88	9.61	-4.48	-13.00	-45.76
2532.000	-57.05	-62.07	10.60	-5.58	-13.00	-44.05
3800.000	-53.86	-59.31	12.20	-6.75	-13.00	-40.86
5700.000	-51.47	-56.00	13.00	-8.47	-13.00	-38.47

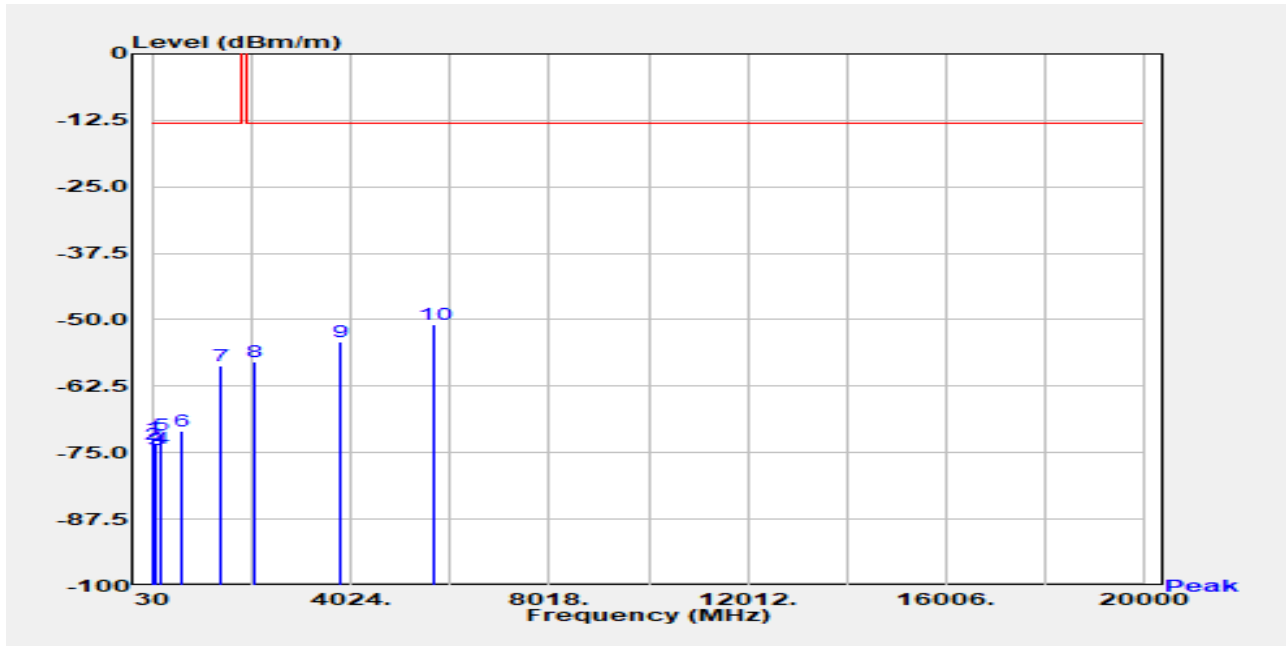
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_12A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_704 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-72.12	-59.83	-11.68	-0.61	-13.00	-59.12
75.590	-73.52	-70.27	-2.32	-0.92	-13.00	-60.52
102.750	-74.52	-74.80	1.37	-1.08	-13.00	-61.52
189.080	-74.10	-77.68	5.07	-1.49	-13.00	-61.10
230.790	-71.69	-77.02	6.96	-1.64	-13.00	-58.69
610.060	-70.82	-74.28	6.04	-2.58	-13.00	-57.82
1408.000	-58.68	-62.25	7.63	-4.06	-13.00	-45.68
2112.000	-57.77	-62.56	9.78	-5.00	-13.00	-44.77
3800.000	-54.05	-59.50	12.20	-6.75	-13.00	-41.05
5700.000	-51.00	-55.53	13.00	-8.47	-13.00	-38.00

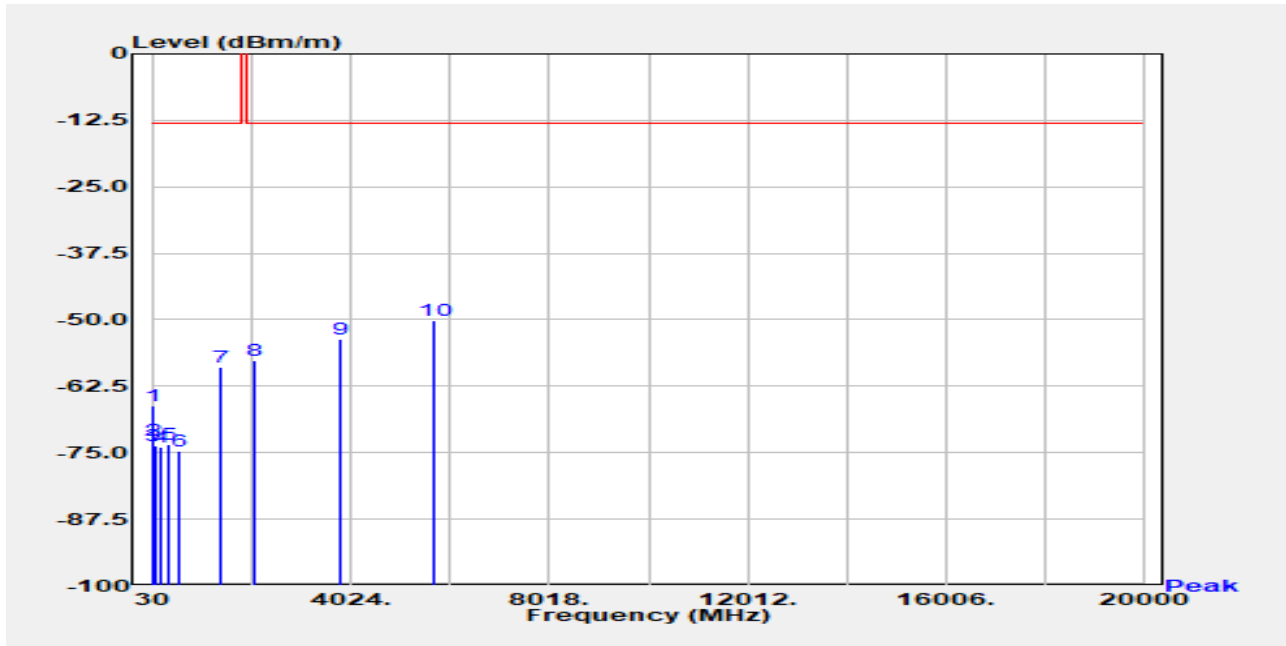
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_12A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_704 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-66.27	-54.34	-11.30	-0.63	-13.00	-53.27
64.920	-72.61	-65.64	-6.14	-0.84	-13.00	-59.61
75.590	-73.75	-70.50	-2.32	-0.92	-13.00	-60.75
229.820	-73.87	-79.31	7.07	-1.63	-13.00	-60.87
361.740	-73.45	-78.12	6.73	-2.07	-13.00	-60.45
597.450	-74.70	-78.15	6.11	-2.65	-13.00	-61.70
1408.000	-58.83	-62.41	7.63	-4.06	-13.00	-45.83
2112.000	-57.72	-62.51	9.78	-5.00	-13.00	-44.72
3800.000	-53.69	-59.14	12.20	-6.75	-13.00	-40.69
5700.000	-50.08	-54.61	13.00	-8.47	-13.00	-37.08

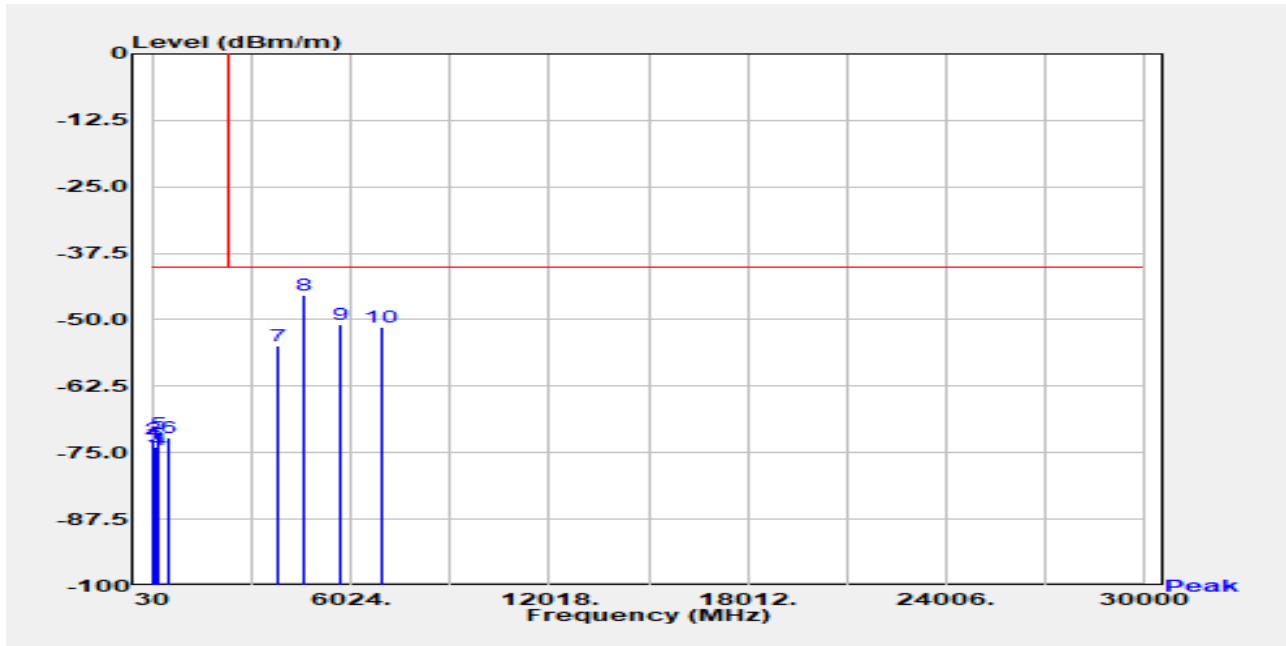
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_30A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_2310 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-73.10	-60.81	-11.68	-0.61	-40.00	-33.10
75.590	-72.39	-69.14	-2.32	-0.92	-40.00	-32.39
102.750	-73.86	-74.14	1.37	-1.08	-40.00	-33.86
189.080	-74.52	-78.10	5.07	-1.49	-40.00	-34.52
229.820	-71.55	-76.99	7.07	-1.63	-40.00	-31.55
551.860	-72.11	-76.35	6.70	-2.45	-40.00	-32.11
3800.000	-54.86	-60.31	12.20	-6.75	-40.00	-14.86
4620.000	-45.44	-50.41	12.56	-7.59	-40.00	-5.44
5700.000	-50.91	-55.44	13.00	-8.47	-40.00	-10.91
6930.000	-51.50	-53.74	11.72	-9.48	-40.00	-11.50

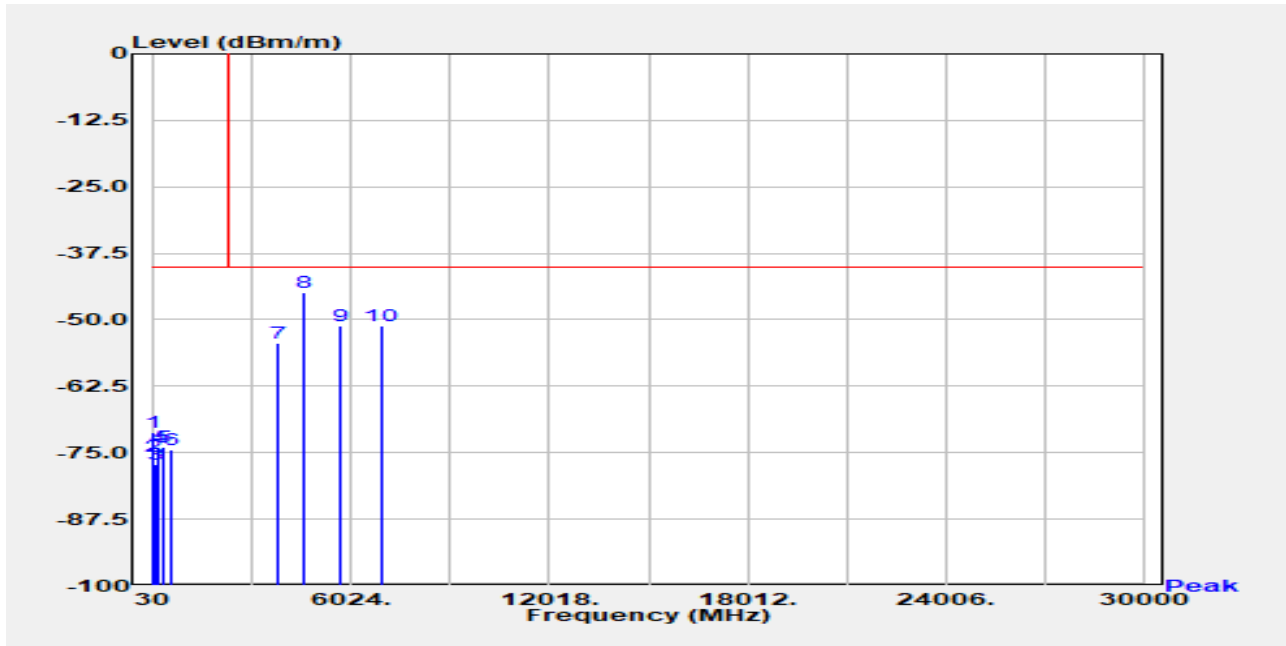
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_30A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_2310 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.16	-58.87	-11.68	-0.61	-40.00	-31.16
64.920	-75.56	-68.59	-6.14	-0.84	-40.00	-35.56
105.660	-77.10	-77.08	1.08	-1.09	-40.00	-37.10
231.760	-73.82	-79.02	6.84	-1.64	-40.00	-33.82
364.650	-74.01	-78.62	6.69	-2.07	-40.00	-34.01
608.120	-74.32	-77.80	6.05	-2.57	-40.00	-34.32
3800.000	-54.38	-59.83	12.20	-6.75	-40.00	-14.38
4620.000	-44.81	-49.77	12.56	-7.59	-40.00	-4.81
5700.000	-51.07	-55.60	13.00	-8.47	-40.00	-11.07
6930.000	-51.14	-53.38	11.72	-9.48	-40.00	-11.14

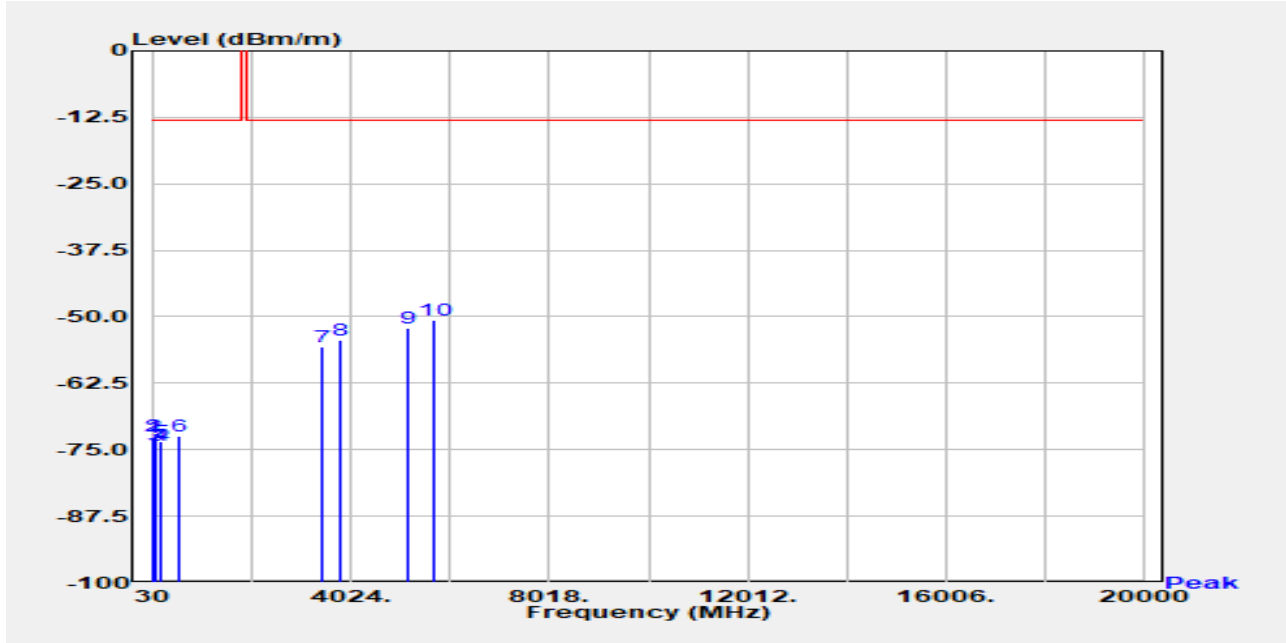
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_66A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_1720 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-72.64	-60.35	-11.68	-0.61	-13.00	-59.64
75.590	-72.35	-69.11	-2.32	-0.92	-13.00	-59.35
102.750	-74.26	-74.55	1.37	-1.08	-13.00	-61.26
189.080	-74.25	-77.83	5.07	-1.49	-13.00	-61.25
229.820	-73.32	-78.76	7.07	-1.63	-13.00	-60.32
570.290	-72.43	-76.04	6.35	-2.75	-13.00	-59.43
3440.000	-55.66	-61.72	12.42	-6.36	-13.00	-42.66
3800.000	-54.47	-59.92	12.20	-6.75	-13.00	-41.47
5160.000	-52.12	-56.39	12.24	-7.97	-13.00	-39.12
5700.000	-50.65	-55.18	13.00	-8.47	-13.00	-37.65

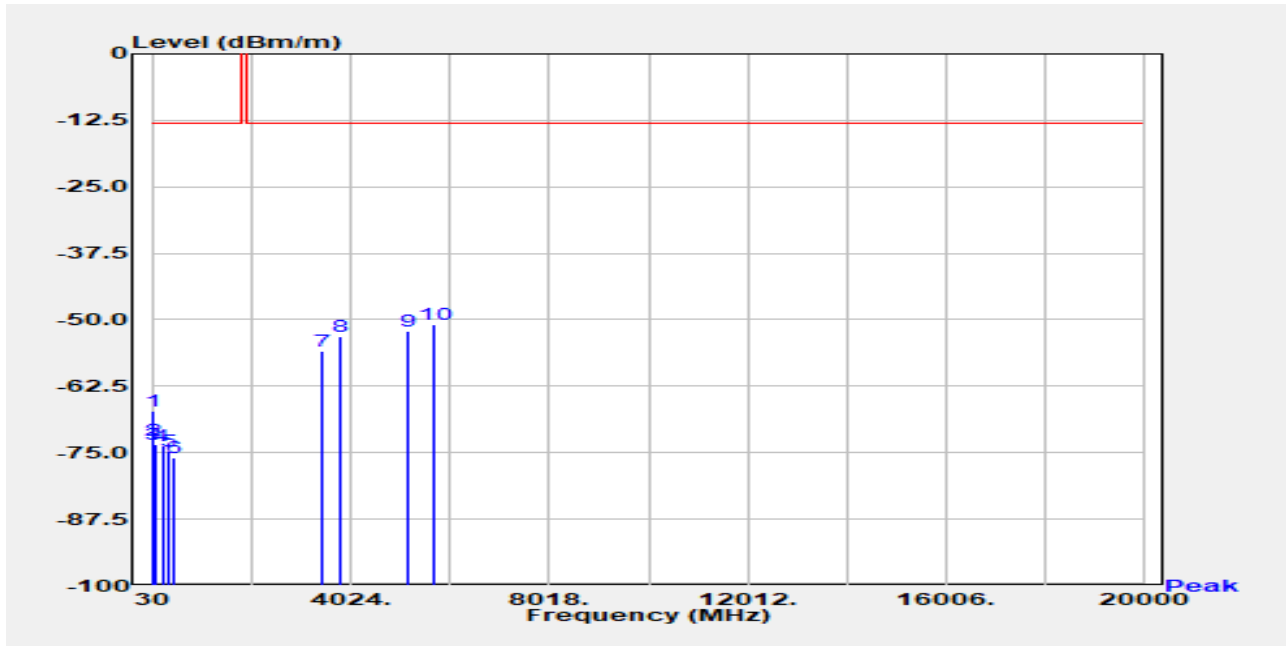
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 2A_66A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1900_1720 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.850	-67.17	-55.40	-11.13	-0.64	-13.00	-54.17
64.920	-72.79	-65.82	-6.14	-0.84	-13.00	-59.79
75.590	-73.50	-70.25	-2.32	-0.92	-13.00	-60.50
232.730	-73.68	-78.76	6.73	-1.65	-13.00	-60.68
367.560	-74.68	-79.23	6.63	-2.08	-13.00	-61.68
471.350	-76.04	-79.99	6.37	-2.42	-13.00	-63.04
3440.000	-55.79	-61.85	12.42	-6.36	-13.00	-42.79
3800.000	-53.22	-58.67	12.20	-6.75	-13.00	-40.22
5160.000	-52.06	-56.33	12.24	-7.97	-13.00	-39.06
5700.000	-50.92	-55.45	13.00	-8.47	-13.00	-37.92

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

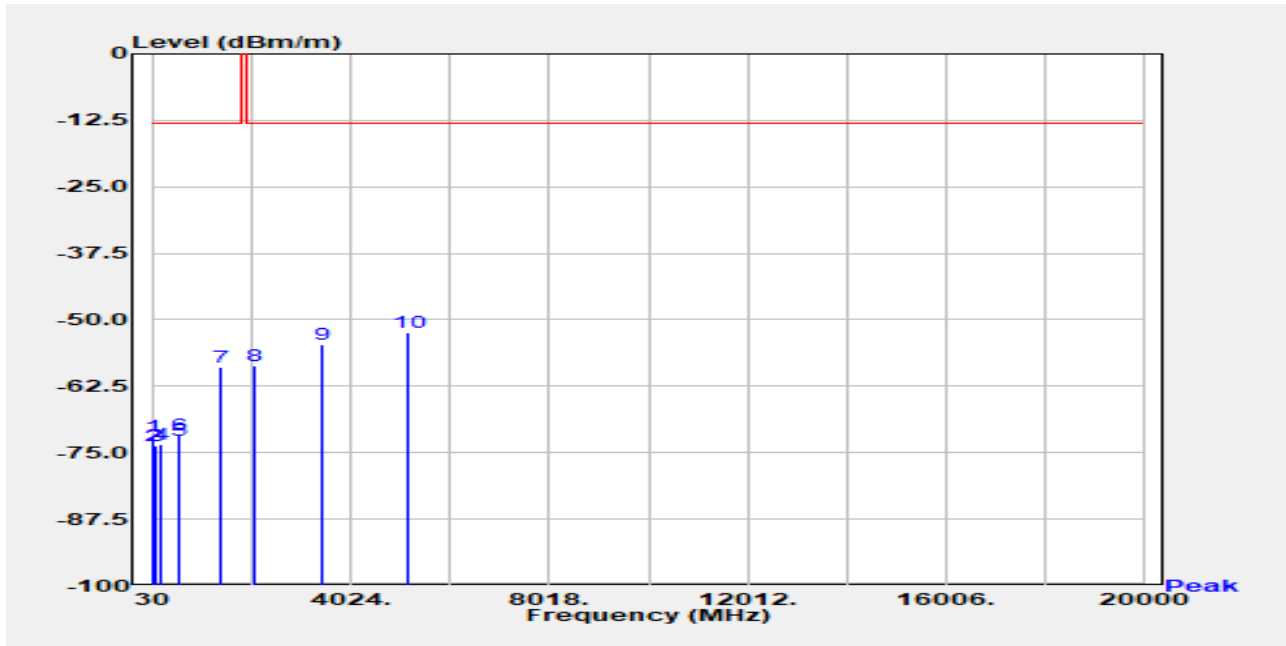
f (886-2) 2298-0488

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Report Number :TERF2305001077ER
 Operation Mode :ULCA 4A_12A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1732.5_704 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.81	-59.52	-11.68	-0.61	-13.00	-58.81
75.590	-73.67	-70.42	-2.32	-0.92	-13.00	-60.67
102.750	-73.57	-73.86	1.37	-1.08	-13.00	-60.57
229.820	-73.56	-79.00	7.07	-1.63	-13.00	-60.56
557.680	-72.77	-76.67	6.60	-2.71	-13.00	-59.77
588.720	-71.73	-75.02	6.26	-2.97	-13.00	-58.73
1408.000	-58.81	-62.39	7.63	-4.06	-13.00	-45.81
2112.000	-58.58	-63.36	9.78	-5.00	-13.00	-45.58
3465.000	-54.68	-60.69	12.37	-6.37	-13.00	-41.68
5197.500	-52.46	-56.88	12.39	-7.97	-13.00	-39.46

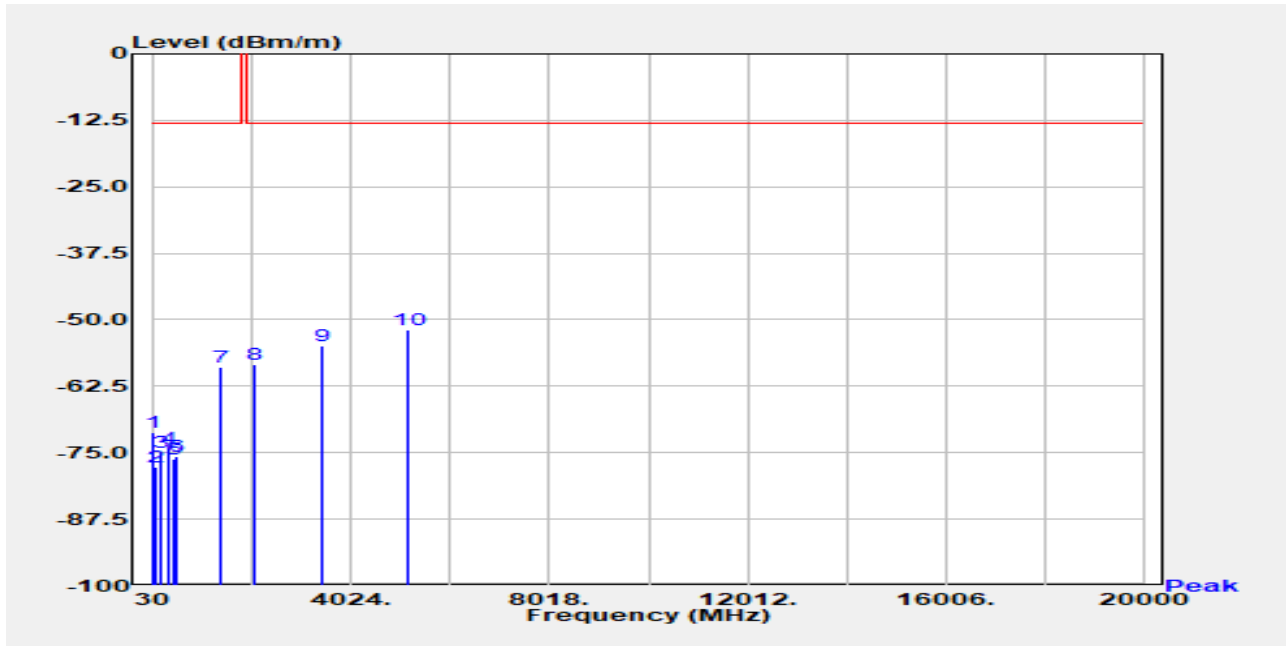
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 4A_12A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1732.5_704 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.910	-71.30	-59.61	-11.06	-0.62	-13.00	-58.30
105.660	-77.69	-77.67	1.08	-1.09	-13.00	-64.69
230.790	-74.95	-80.28	6.96	-1.64	-13.00	-61.95
366.590	-74.08	-78.65	6.65	-2.08	-13.00	-61.08
473.290	-76.10	-80.00	6.36	-2.46	-13.00	-63.10
545.070	-75.60	-79.88	6.66	-2.37	-13.00	-62.60
1408.000	-58.84	-62.41	7.63	-4.06	-13.00	-45.84
2112.000	-58.41	-63.19	9.78	-5.00	-13.00	-45.41
3465.000	-54.91	-60.91	12.37	-6.37	-13.00	-41.91
5197.500	-51.94	-56.36	12.39	-7.97	-13.00	-38.94

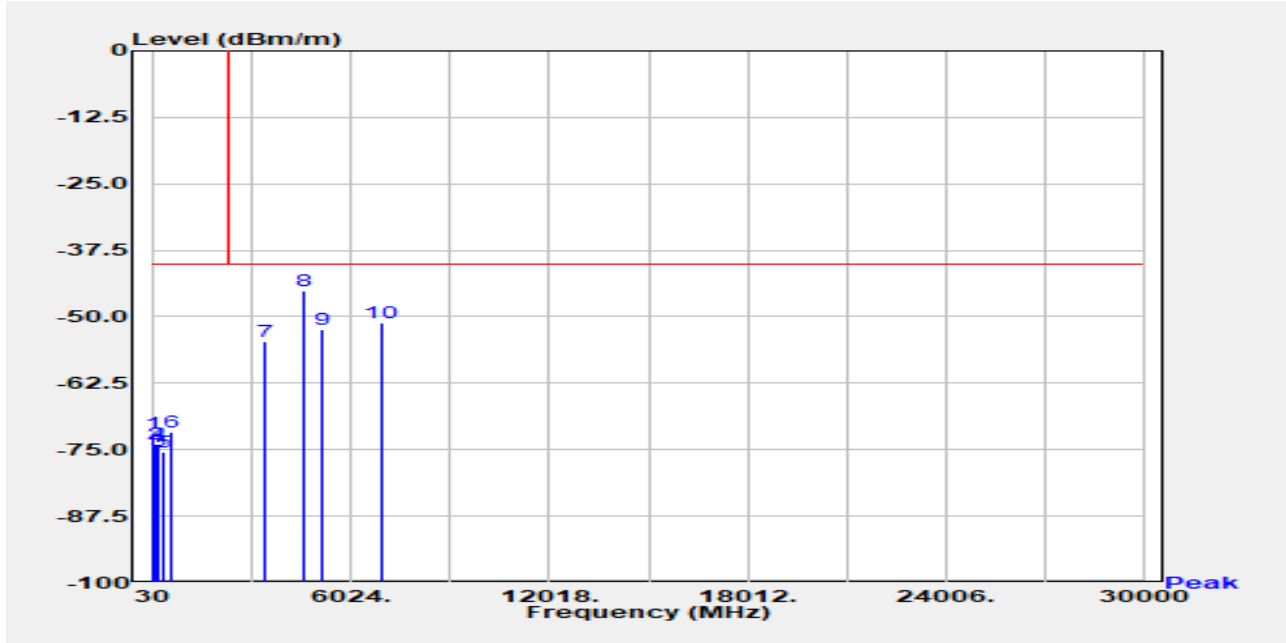
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 4A_30A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1732.5_2310 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-71.84	-59.40	-11.84	-0.60	-40.00	-31.84
101.780	-73.93	-74.15	1.30	-1.08	-40.00	-33.93
182.290	-75.30	-77.83	3.97	-1.45	-40.00	-35.30
229.820	-73.81	-79.25	7.07	-1.63	-40.00	-33.81
381.140	-75.54	-79.76	6.31	-2.09	-40.00	-35.54
594.540	-71.72	-75.07	6.13	-2.78	-40.00	-31.72
3465.000	-54.62	-60.62	12.37	-6.37	-40.00	-14.62
4620.000	-45.14	-50.10	12.56	-7.59	-40.00	-5.14
5197.500	-52.45	-56.87	12.39	-7.97	-40.00	-12.45
6930.000	-51.16	-53.40	11.72	-9.48	-40.00	-11.16

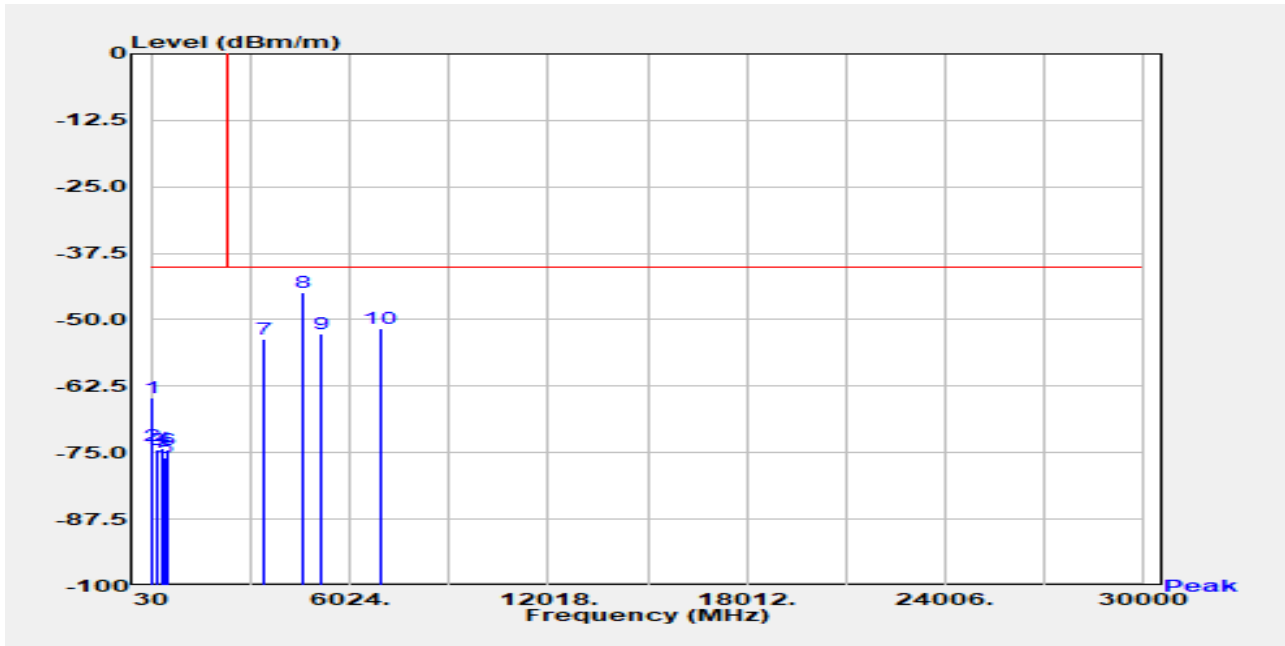
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 4A_30A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :1732.5_2310 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.880	-64.58	-52.65	-11.30	-0.63	-40.00	-24.58
74.620	-73.81	-70.20	-2.69	-0.92	-40.00	-33.81
230.790	-74.40	-79.73	6.96	-1.64	-40.00	-34.40
367.560	-74.21	-78.76	6.63	-2.08	-40.00	-34.21
473.290	-75.95	-79.85	6.36	-2.46	-40.00	-35.95
544.100	-74.52	-78.79	6.65	-2.38	-40.00	-34.52
3465.000	-53.74	-59.74	12.37	-6.37	-40.00	-13.74
4620.000	-44.74	-47.70	12.56	-7.59	-40.00	-4.74
5197.500	-52.73	-57.15	12.39	-7.97	-40.00	-12.73
6930.000	-51.52	-53.76	11.72	-9.48	-40.00	-11.52

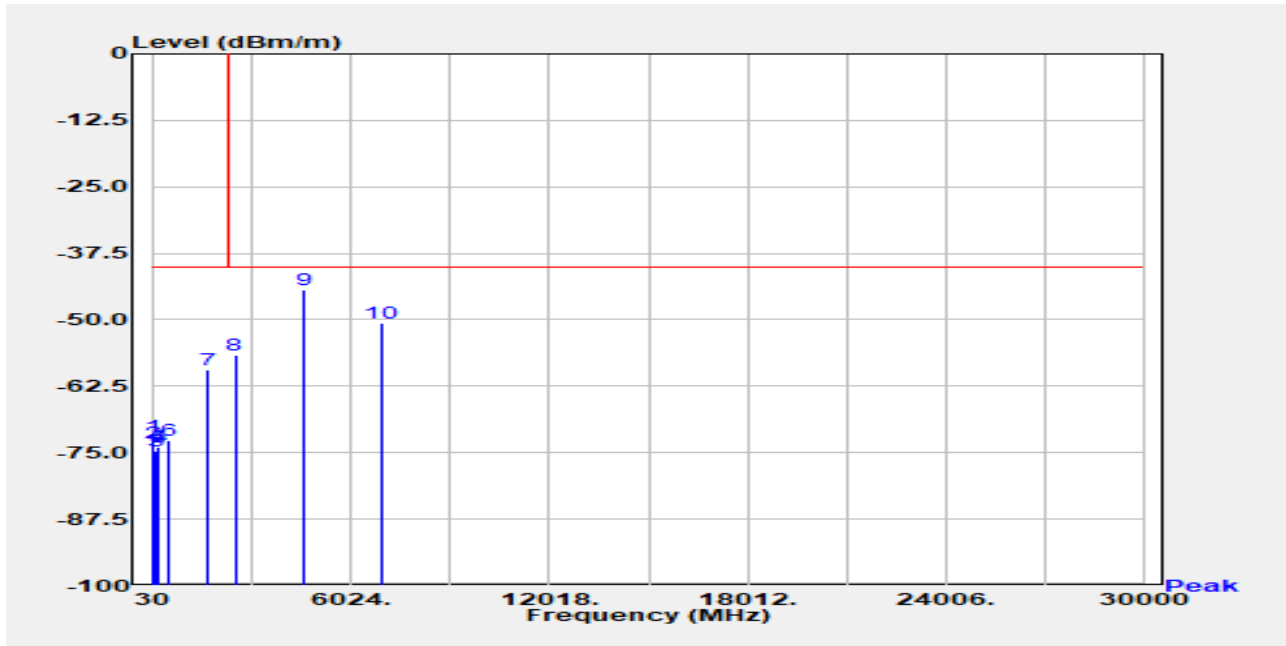
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 5A_30A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :844_2310 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.87	-59.58	-11.68	-0.61	-40.00	-31.87
75.590	-73.24	-69.99	-2.32	-0.92	-40.00	-33.24
103.720	-74.60	-74.74	1.23	-1.09	-40.00	-34.60
180.350	-73.95	-76.17	3.66	-1.43	-40.00	-33.95
231.760	-73.88	-79.08	6.84	-1.64	-40.00	-33.88
550.890	-72.60	-76.91	6.72	-2.41	-40.00	-32.60
1688.000	-59.32	-64.44	9.61	-4.48	-40.00	-19.32
2532.000	-56.64	-61.65	10.60	-5.58	-40.00	-16.64
4620.000	-44.31	-49.27	12.56	-7.59	-40.00	-4.31
6930.000	-50.69	-52.94	11.72	-9.48	-40.00	-10.69

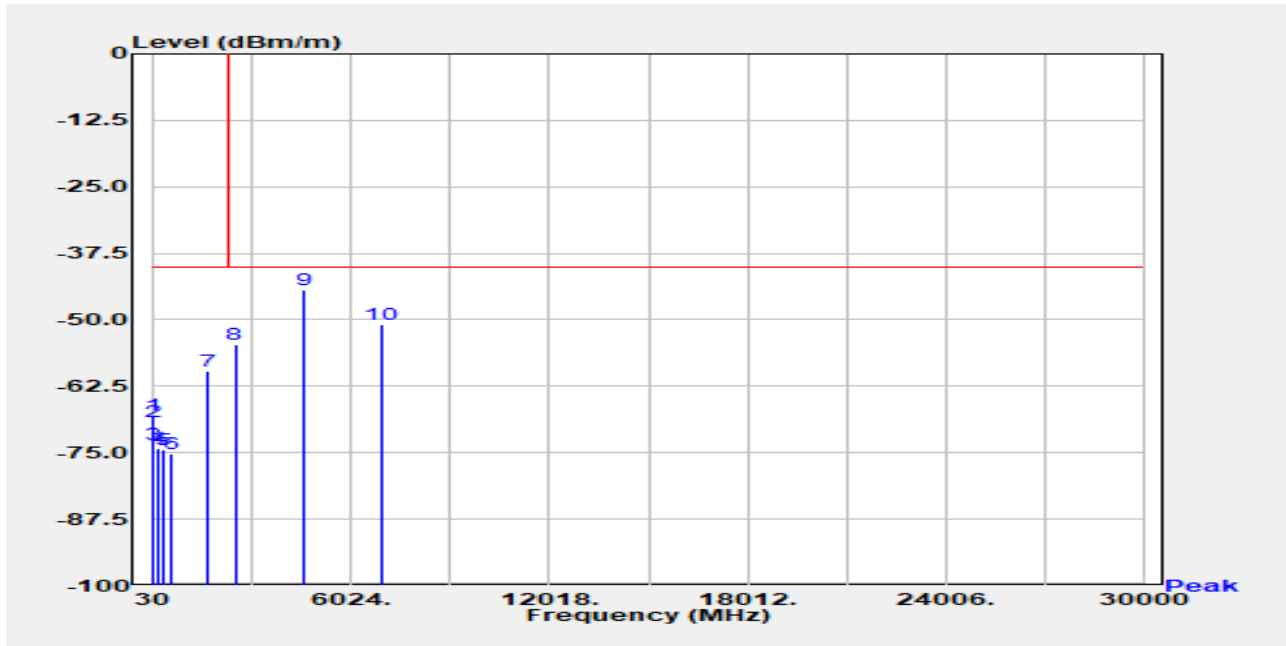
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 5A_30A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :844_2310 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.970	-67.95	-55.51	-11.84	-0.60	-40.00	-27.95
36.790	-69.10	-57.74	-10.70	-0.66	-40.00	-29.10
65.890	-73.44	-67.04	-5.55	-0.85	-40.00	-33.44
230.790	-74.15	-79.47	6.96	-1.64	-40.00	-34.15
373.380	-74.36	-78.74	6.47	-2.09	-40.00	-34.36
588.720	-75.21	-78.50	6.26	-2.97	-40.00	-35.21
1688.000	-59.57	-64.69	9.61	-4.48	-40.00	-19.57
2532.000	-54.52	-59.54	10.60	-5.58	-40.00	-14.52
4620.000	-44.42	-49.39	12.56	-7.59	-40.00	-4.42
6930.000	-50.92	-53.16	11.72	-9.48	-40.00	-10.92

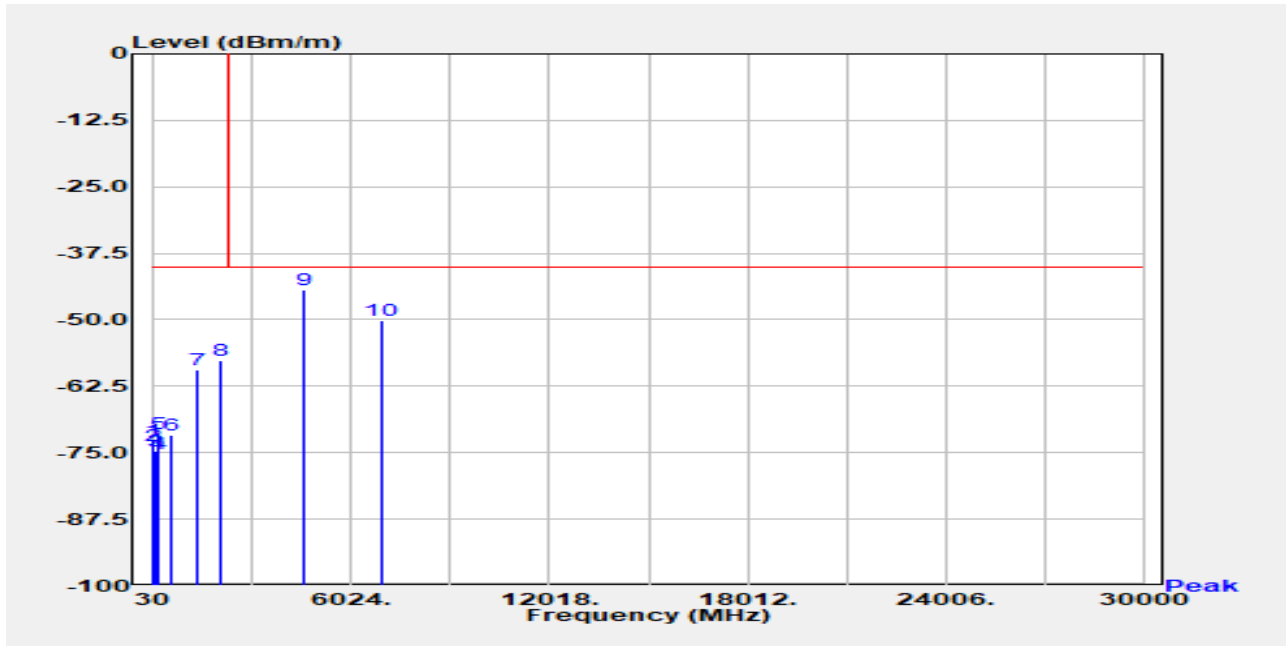
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 12A_30A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :704_2310 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-72.57	-60.28	-11.68	-0.61	-40.00	-32.57
75.590	-73.64	-70.40	-2.32	-0.92	-40.00	-33.64
101.780	-74.61	-74.84	1.30	-1.08	-40.00	-34.61
187.140	-75.10	-78.23	4.60	-1.48	-40.00	-35.10
230.790	-71.33	-76.65	6.96	-1.64	-40.00	-31.33
603.270	-71.60	-75.12	6.08	-2.55	-40.00	-31.60
1408.000	-59.39	-62.96	7.63	-4.06	-40.00	-19.39
2112.000	-57.71	-62.49	9.78	-5.00	-40.00	-17.71
4620.000	-44.41	-49.38	12.56	-7.59	-40.00	-4.41
6930.000	-50.17	-52.41	11.72	-9.48	-40.00	-10.17

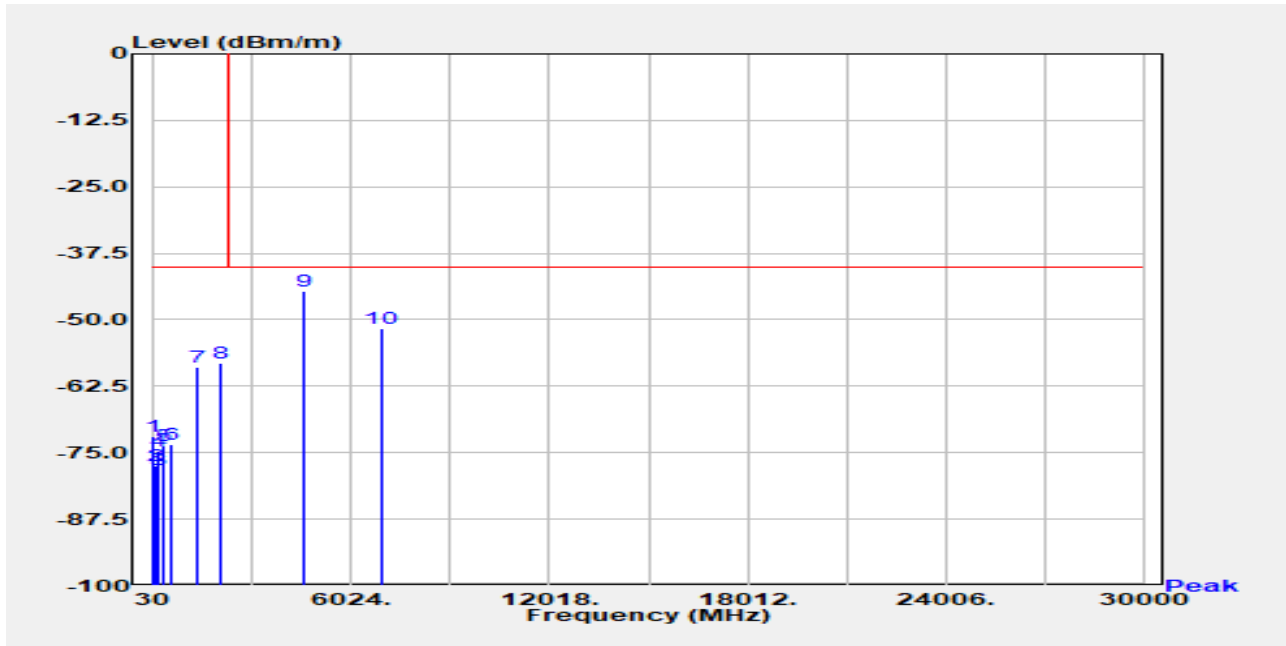
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 12A_30A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :704_2310 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.760	-71.81	-60.54	-10.60	-0.67	-40.00	-31.81
105.660	-77.32	-77.30	1.08	-1.09	-40.00	-37.32
186.170	-78.09	-81.15	4.53	-1.47	-40.00	-38.09
230.790	-74.60	-79.93	6.96	-1.64	-40.00	-34.60
370.470	-73.61	-78.10	6.57	-2.09	-40.00	-33.61
608.120	-73.55	-77.03	6.05	-2.57	-40.00	-33.55
1408.000	-59.00	-62.57	7.63	-4.06	-40.00	-19.00
2112.000	-58.12	-62.90	9.78	-5.00	-40.00	-18.12
4620.000	-44.71	-49.67	12.56	-7.59	-40.00	-4.71
6930.000	-51.52	-53.76	11.72	-9.48	-40.00	-11.52

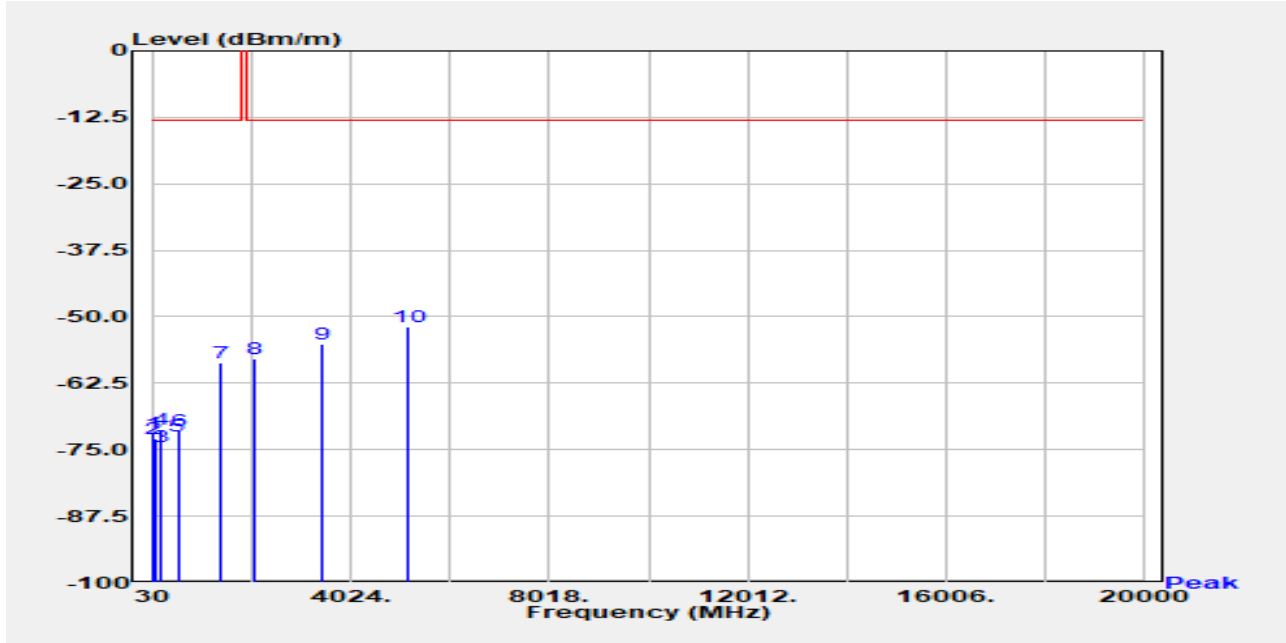
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 12A_66A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :704_1720 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.940	-71.83	-59.54	-11.68	-0.61	-13.00	-58.83
75.590	-73.04	-69.79	-2.32	-0.92	-13.00	-60.04
187.140	-74.52	-77.65	4.60	-1.48	-13.00	-61.52
227.880	-71.17	-76.75	7.19	-1.62	-13.00	-58.17
547.980	-72.45	-76.79	6.71	-2.37	-13.00	-59.45
592.600	-71.40	-74.71	6.18	-2.87	-13.00	-58.40
1408.000	-58.53	-62.10	7.63	-4.06	-13.00	-45.53
2112.000	-57.84	-62.62	9.78	-5.00	-13.00	-44.84
3440.000	-55.12	-61.18	12.42	-6.36	-13.00	-42.12
5160.000	-51.96	-56.23	12.24	-7.97	-13.00	-38.96

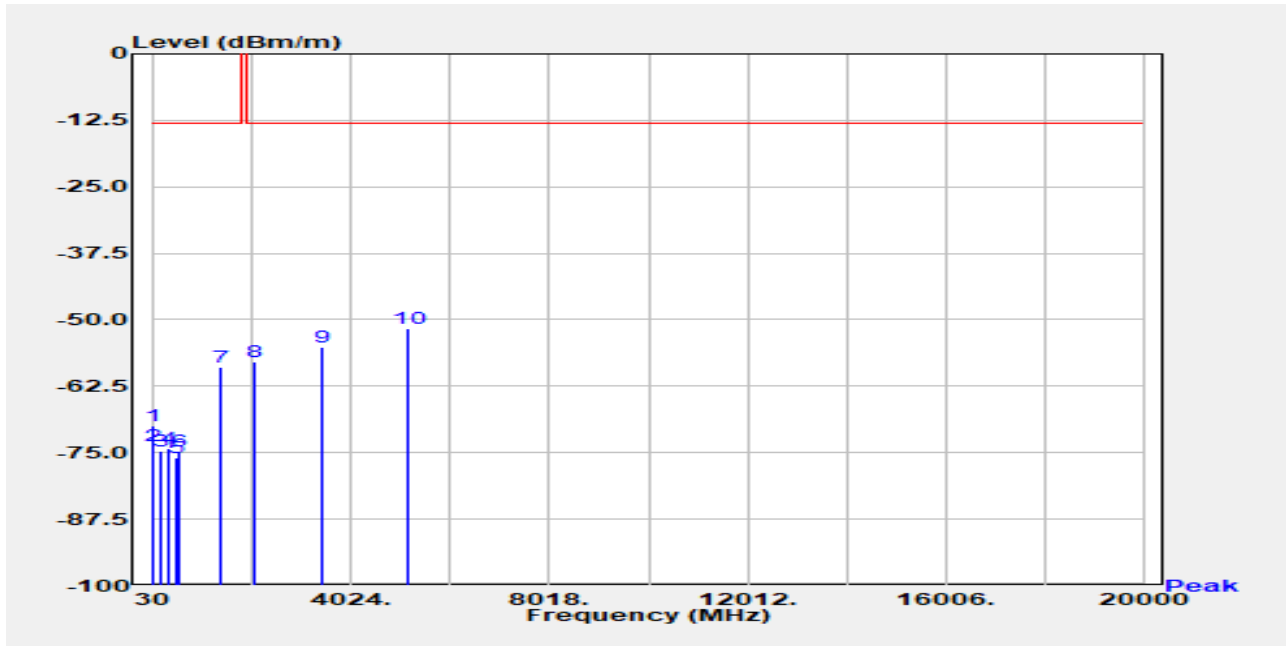
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Report Number :TERF2305001077ER
 Operation Mode :ULCA 12A_66A
 Test Mode :Tx
 EUT Pol :E1 Plane
 Test Frequency :704_1720 MHz

Test Site :SAC 2
 Test Date :2023-07-06
 Temp./Humi. :25.7°C/66%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-69.88	-58.51	-10.72	-0.65	-13.00	-56.88
62.980	-73.58	-66.18	-6.59	-0.81	-13.00	-60.58
230.790	-74.62	-79.95	6.96	-1.64	-13.00	-61.62
372.410	-74.24	-78.65	6.50	-2.09	-13.00	-61.24
519.850	-75.84	-80.22	6.45	-2.06	-13.00	-62.84
595.510	-74.74	-78.12	6.12	-2.74	-13.00	-61.74
1408.000	-58.82	-62.39	7.63	-4.06	-13.00	-45.82
2112.000	-57.99	-62.77	9.78	-5.00	-13.00	-44.99
3440.000	-55.17	-61.23	12.42	-6.36	-13.00	-42.17
5160.000	-51.55	-55.83	12.24	-7.97	-13.00	-38.55

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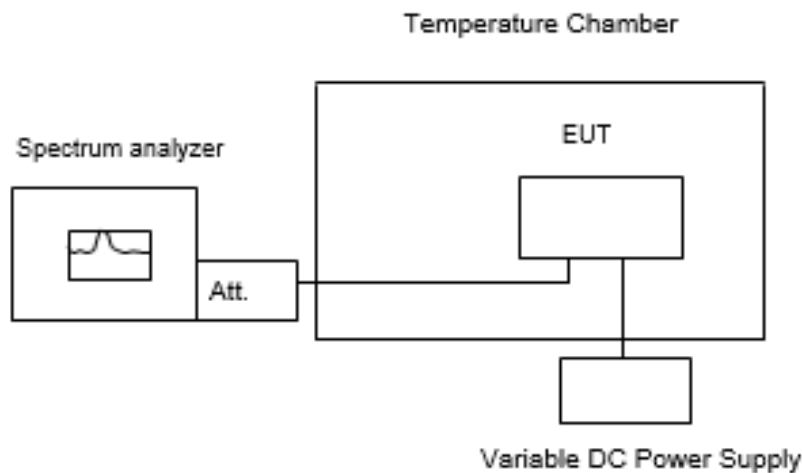
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11 FREQUENCY STABILITY MEASUREMENT

11.1 Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

11.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4 Measurement Result

Note: The battery is rated 3.89Vdc.

Reference Freq.:	LTE CAB2: Mid Channel (MHz)		1880
	Channel Bandwidth:		20MHz+20MHz
Power Supply Vdc	Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)
Freq. ERROR vs. VOLTAGE			
4.4735	25	1879.999993	-0.0039
3.89	25	1879.999992	-0.0045
3.3065	25	1879.999989	-0.0061
3.2	25	1880.000005	0.0030
(End Point)			
Freq. ERROR vs. Temp.			
3.89	-30	1880.000008	8.4000
3.89	-20	1880.000013	12.6000
3.89	-10	1879.999995	-5.5000
3.89	0	1879.999992	-7.6000
3.89	10	1880.000015	14.6000
3.89	20	1880.000011	11.2000
3.89	30	1879.999985	-14.7000
3.89	40	1879.999989	-11.4000
3.89	50	1880.000006	5.5000

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Reference Freq.:	LTE CAB41: Mid Channel (MHz)		2593
	Channel Bandwidth:		20MHz+20MHz
Power Supply Vdc	Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)
Freq. ERROR vs. VOLTAGE			
4.4735	25	2592.999990	-0.0037
3.89	25	2593.000011	0.0040
3.3065	25	2593.000013	0.0052
3.2	25	2593.000006	0.0022
(End Point)			
Freq. ERROR vs. Temp.			
3.89	-30	2592.999991	-8.9000
3.89	-20	2592.999989	-10.7000
3.89	-10	2592.999987	-12.8000
3.89	0	2593.000011	11.2000
3.89	10	2593.000006	5.9000
3.89	20	2593.000008	8.4000
3.89	30	2592.999989	-10.6000
3.89	40	2593.000013	12.9000
3.89	50	2593.000007	7.3000

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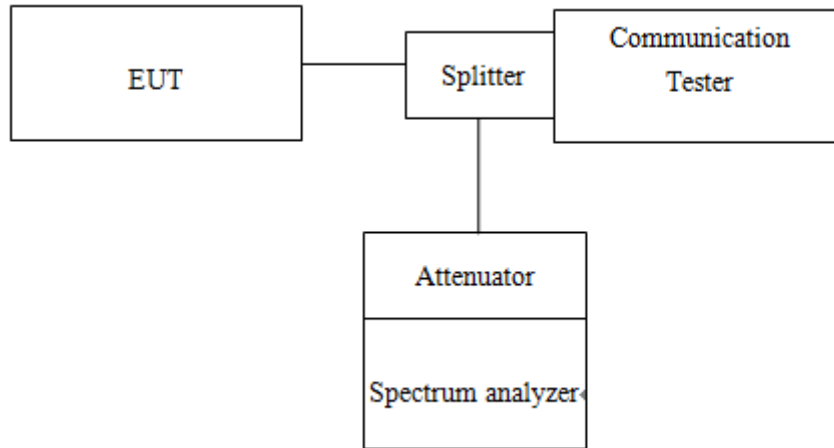
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12 PEAK TO AVERAGE RATIO

12.1 Standard Applicable

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

12.2 Test SET-UP



12.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

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12.4 Measurement Result

LTE BAND 2C

Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	PAPR (dB)	
				256QAM	Limit
LTE BAND 2C	5MHz + 20MHz	25/0 + 100/0	1880.0	6.890	13
LTE BAND 2C	20MHz + 5MHz	100/0 + 25/0	1880.0	6.850	13
LTE BAND 2C	10MHz + 15MHz	50/0 + 75/0	1880.0	7.590	13
LTE BAND 2C	15MHz + 10MHz	75/0 + 50/0	1880.0	7.570	13
LTE BAND 2C	10MHz + 20MHz	50/0 + 100/0	1880.0	7.070	13
LTE BAND 2C	20MHz + 10MHz	100/0 + 50/0	1880.0	7.490	13
LTE BAND 2C	15MHz + 15MHz	75/0 + 75/0	1880.0	7.920	13
LTE BAND 2C	15MHz + 20MHz	75/0 + 100/0	1880.0	7.840	13
LTE BAND 2C	20MHz + 15MHz	100/0 + 75/0	1880.0	7.950	13
LTE BAND 2C	20MHz + 20MHz	100/0 + 100/0	1880.0	7.630	13

LTE BAND 41C

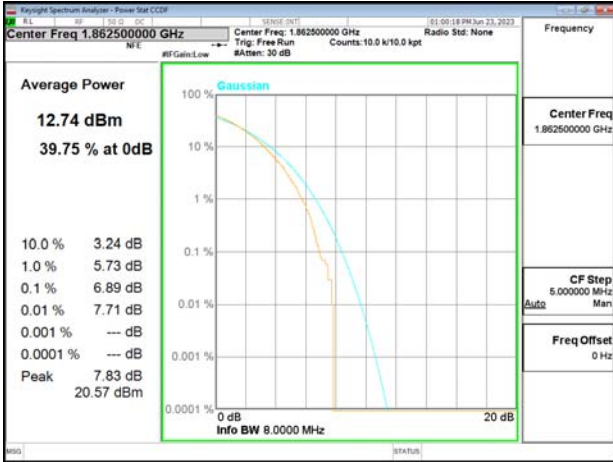
Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	PAPR (dB)	
				256QAM	Limit
LTE BAND 41C	5MHz + 20MHz	25/0 + 100/0	2593.0	11.630	13
LTE BAND 41C	20MHz + 5MHz	100/0 + 25/0	2593.0	7.860	13
LTE BAND 41C	10MHz + 20MHz	50/0 + 100/0	2593.0	7.220	13
LTE BAND 41C	20MHz + 10MHz	100/0 + 50/0	2593.0	10.860	13
LTE BAND 41C	15MHz + 15MHz	75/0 + 75/0	2593.0	9.760	13
LTE BAND 41C	15MHz + 20MHz	75/0 + 100/0	2593.0	9.540	13
LTE BAND 41C	20MHz + 15MHz	100/0 + 75/0	2593.0	7.940	13
LTE BAND 41C	20MHz + 20MHz	100/0 + 100/0	2593.0	7.820	13

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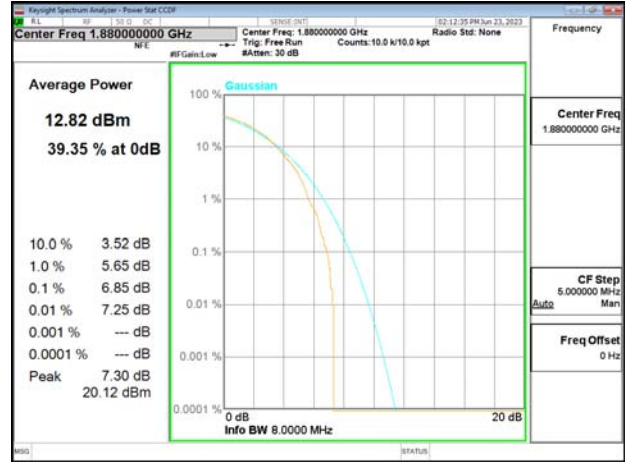
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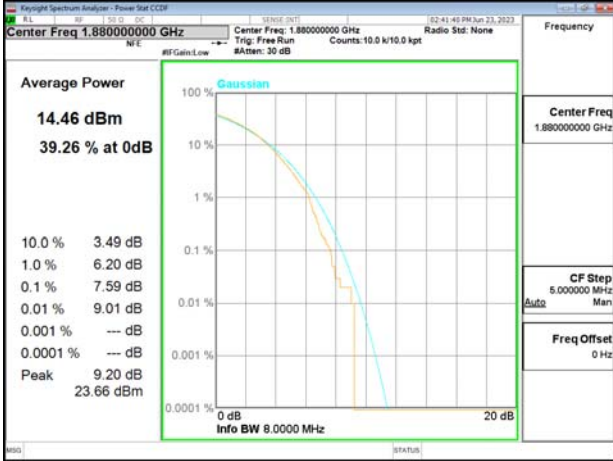
Band2_5MHz+20MHz_256QAM_RB25-0+RB100-0_CH18808+CH18750



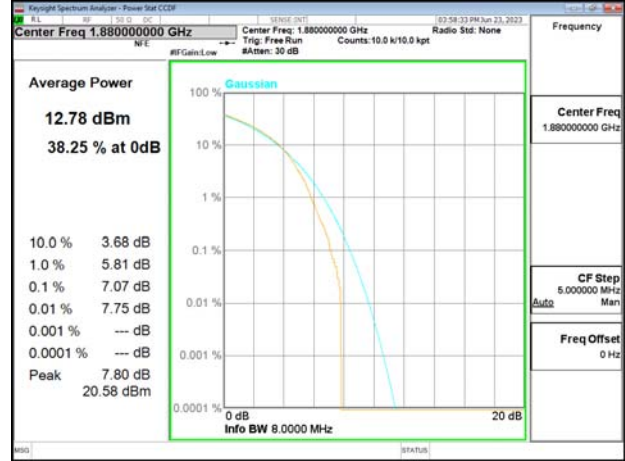
Band2_20MHz+5MHz_256QAM_RB100-0+RB25-0_CH18875+CH18992



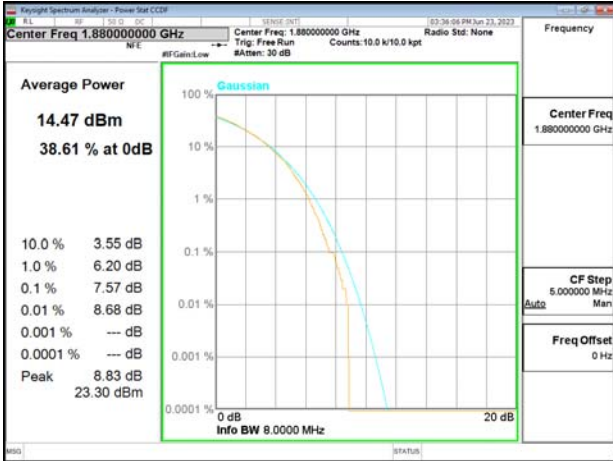
Band2_10MHz+15MHz_256QAM_RB50-0+RB75-0_CH18829+CH18949



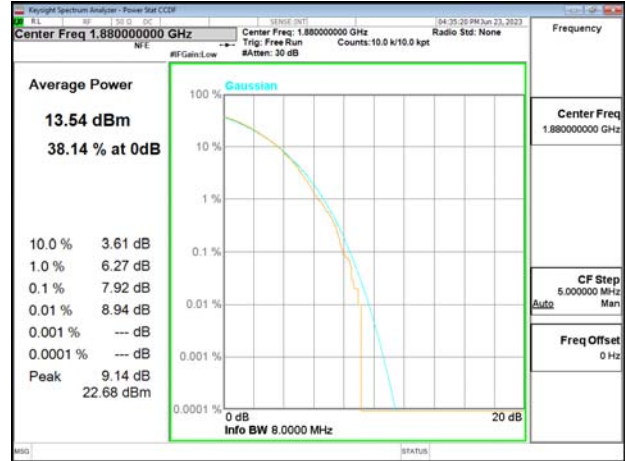
Band2_10MHz+20MHz_256QAM_RB50-0+RB100-0_CH18806+CH18950



Band2_15MHz+10MHz_256QAM_RB75-0+RB50-0_CH18851+CH18971



Band2_15MHz+15MHz_256QAM_RB75-0+RB75-0_CH18825+CH18975



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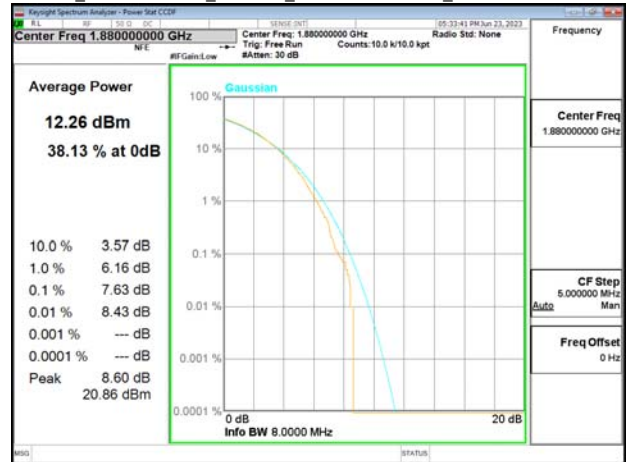
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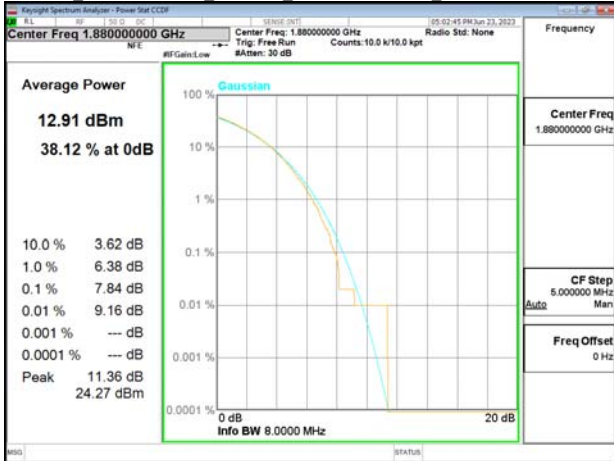
Band2_20MHz+10MHz_256QAM_RB100-0+RB50-0_CH18851+CH18995



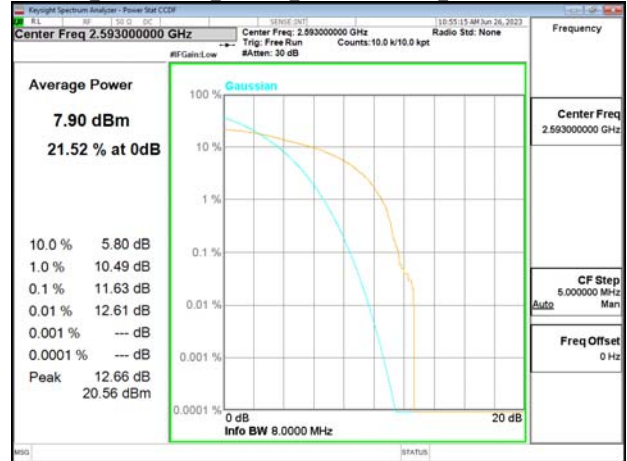
Band2_20MHz+20MHz_256QAM_RB100-0+RB100-0_CH18801+CH18999



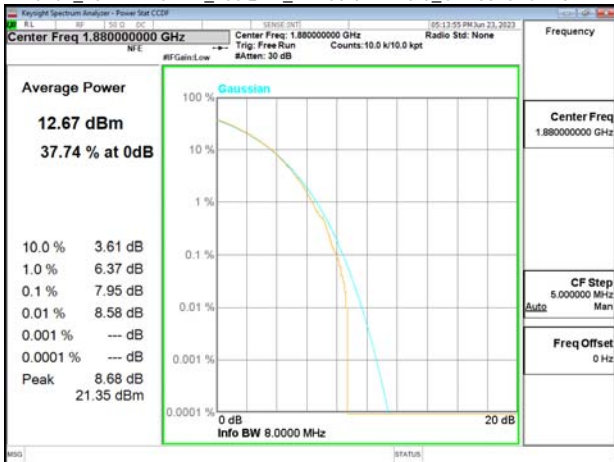
Band2_15MHz+20MHz_256QAM_RB75-0+RB100-0_CH18803+CH18974



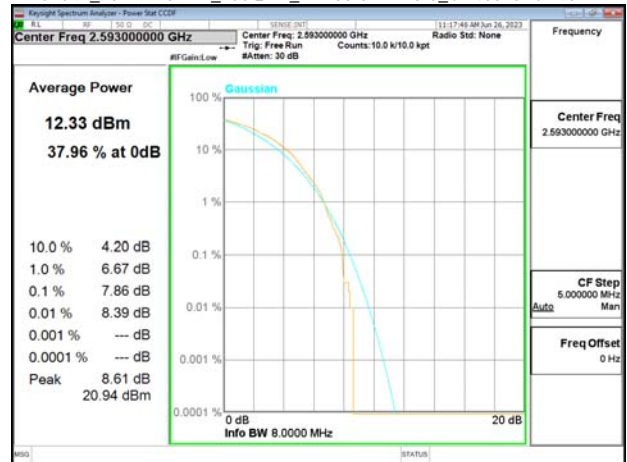
Band41_5MHz+20MHz_256QAM_RB25-0+RB100-0_CH40528+CH40645



Band2_20MHz+15MHz_256QAM_RB100-0+RB75-0_CH18826+CH18997



Band41_20MHz+5MHz_256QAM_RB100-0+RB25-0_CH40595+CH40712

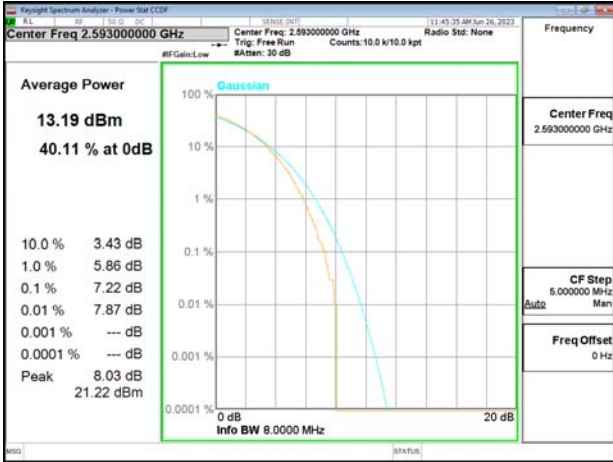


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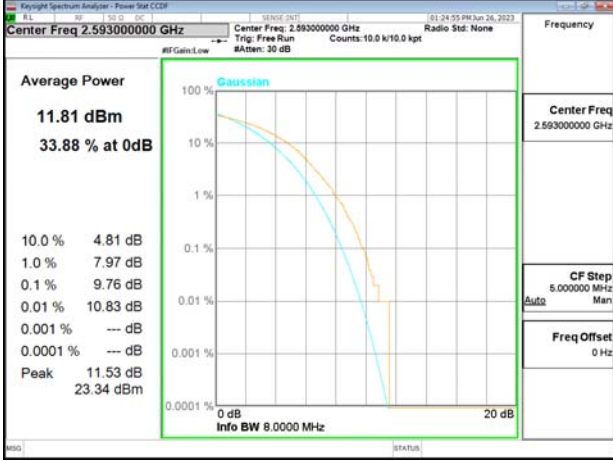
Band41_10MHz+20MHz_256QAM_RB50-0+RB100-0_CH40526+CH40670



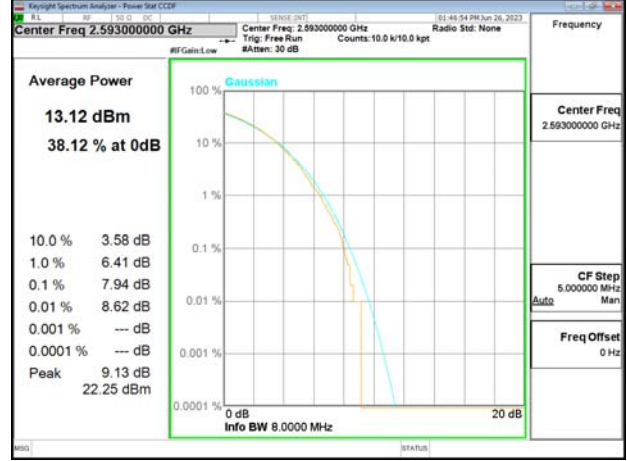
Band41_15MHz+20MHz_256QAM_RB75-0+RB100-0_CH40523+CH40694



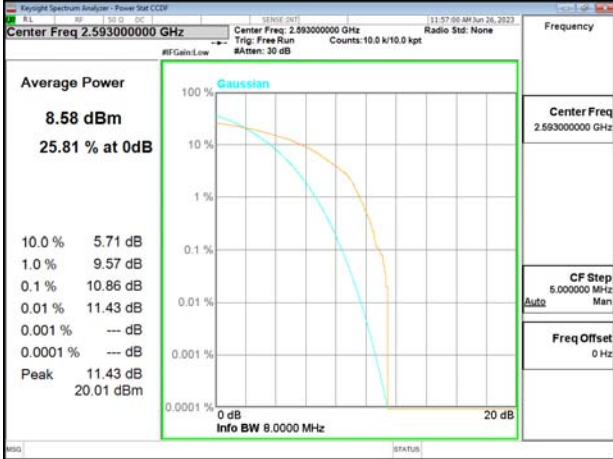
Band41_15MHz+15MHz_256QAM_RB75-0+RB75-0_CH40545+CH40695



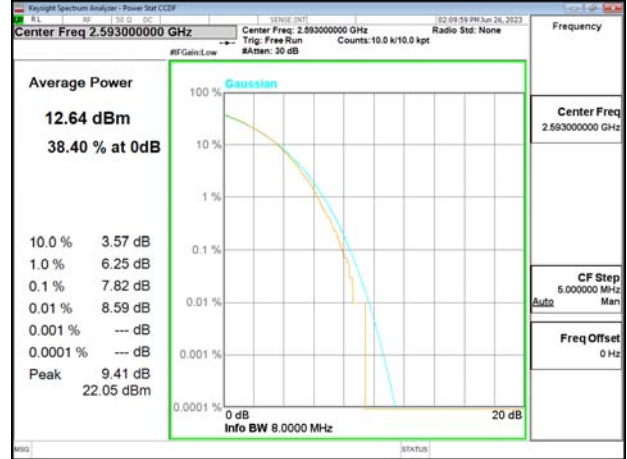
Band41_20MHz+15MHz_256QAM_RB100-0+RB75-0_CH40546+CH40717



Band41_20MHz+10MHz_256QAM_RB100-0+RB50-0_CH40571+CH40715



Band41_20MHz+20MHz_256QAM_RB100-0+RB100-0_CH40521+CH40719



~ End of Report ~

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