

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



FCC Applicant:	NEC Platforms,Ltd.
FCC Manufacturer:	 2-3, tsukasa-machi, kanda, chiyoda-ku, Tokyo, 101-8532, Japan NEC Platforms,Ltd. 2-3, tsukasa-machi, kanda, chiyoda-ku, Tokyo, 101-8532, Japan
Product Name:	Mobile Router
Brand Name:	NEC Platforms
Model No.:	KMP8S3AB1-1A, KMP8S3AA1-1A
Model Difference:	N/A
Report Number:	TERF2204000398E2
FCC ID	2AA5WKMP8S3AB
Issue Date:	July 15, 2022
Date of Test:	May 24, 2022~June 10, 2022
Date of EUT Received:	April 21, 2022

Approved By

Jay Lin

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 ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 27 C.

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

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

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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2204000398E2	00	Original	June 17, 2022	Candice Li	*		
TERF2204000398E2	01	Revise measure- ment result	July 15, 2022	Candice Li	*		

Note:

- 1 The remark "*" indicates modification of the report upon requests from certification body.
- 2 · Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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GENERAL PRODUCT INFORMATION 1

1.1 **Product Description**

Product Name:	Mobile Router
Brand Name:	NEC Platforms
Model No.:	KMP8S3AB1-1A, KMP8S3AA1-1A
Model Difference:	N/A
Hardware Version:	1
Firmware Version:	1
EUT Series No.:	359798890030510
Power Supply:	3.8Vdc
Test Software (Name/Version)	default(link 8821C)

1.2 **Operation Frequency Range**

LTE Band 41C					
BW (MHz)	Operation Frequency (MHz)				
25	2508.5 - 2677.5				
30	2511.0 - 2675.0				
35	2513.5 - 2672.5				
40	2516.0 - 2670.0				

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1.3 **Antenna Designation**

Antenna Type	Antenna Model No.			
Inverted L	Ant3			
Note: Transmission frequencies in this test report are only available by the above antenna(s).				

Modulation	1 5			Peak Antenna Gain (dBi)	
Wodulation	(MHz)		Ant3		
LTE-Band 41	2496	~	2690	-0.2	

Note: Antenna information is provided by the applicant.

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

1.4.1 Intra-Band

LTE Band	BW	Modulation	ERP / (dB		(W)	99%	Type of Emission
		QPSK	22.42	EIRP	0.175	22.9010	22M9G7D
41C	25	16QAM	22.32	EIRP	0.171	22.9340	22M9D7W
		64QAM	21.03	EIRP	0.127	22.8640	22M9D7W
		QPSK	24.31	EIRP	0.270	28.3400	28M3D7W
41C	30	16QAM	24.30	EIRP	0.269	28.4190	28M4D7W
		64QAM	21.89	EIRP	0.155	28.3110	28M3D7W
]		QPSK	22.44	EIRP	0.175	32.6160	32M6D7W
41C	35	16QAM	22.13	EIRP	0.163	32.7190	32M7D7W
		64QAM	19.72	EIRP	0.094	32.6630	32M7D7W
	41C 40	QPSK	22.28	EIRP	0.169	37.5270	37M5D7W
41C		16QAM	22.04	EIRP	0.160	37.6610	37M7D7W
		64QAM	19.63	EIRP	0.092	37.5920	37M6D7W

1.5 **Test Methodology of Applied Standards**

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

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1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		TW3702
		Conducted 5]	
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.	No 2 Kaji 1et Dd. Quishan District	Conduction C	TW0028	
(TAF code 3702)		SAC C		
$(1AI \ code \ 5102)$		SAC D		
		SAC G		
		Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B		
	Tabyuan City, Taiwan 555	Conducted C		
		Conducted D		
		Conducted E	4	
		Conducted F		
		Conducted G		
	ame is remarked on the equipmen		-	s an indica-
tion where	measurements occurred in specif	ric test site and add	dress.	

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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SYSTEM TEST CONFIGURATION 2

2.1 **EUT Configuration**

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

2.2 **EUT Exercise**

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

2.3 **Test Procedure**

2.3.1 **Conducted Measurement at Antenna Port**

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

Measurement Results Explanation Example 2.4

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. Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
MB(2GHz - 3GHz)	5.1	10	15.1

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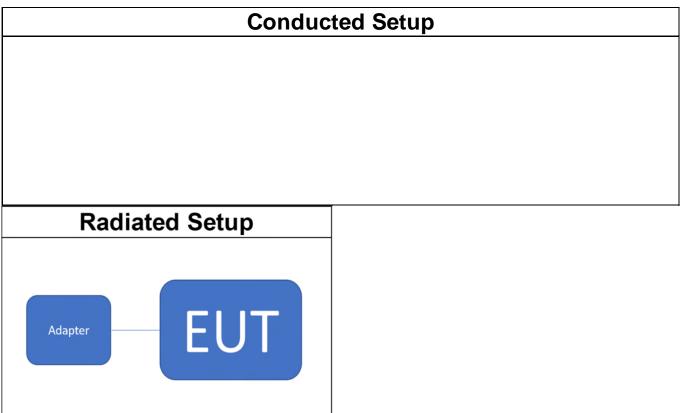


2.5 Final Amplifier Voltage and Current Information:

LTE CA Band 41C

Testmode	DC voltage (V)	DC current (mA)	
LTE CA Band 41C	3.8	585	
20M+20M QPSK	3.0	565	

2.6 Test Configuration



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

2.7 Control Unit(s)

Radiated Emission Test Site: SAC G						
EQUIPME NT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Adapter	Lapo	WT-02CA	4712966931002	N/A	N/A	

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SUMMARY OF TEST RESULTS 3

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

DESCRIPTION OF TEST MODES 4

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]
	5+20 / 20+5	25
CA 410	10+20 / 20+10 / 15+15	30
CA_41C	15+20 / 20+15	35
	20+20	40

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4.2 The Worst-CaseTest Modes and Details

1. This EUT is UE LTE 4G 1Tx/3Rx device for single carrier that can support uplink Band 41. For operation of uplink carrier aggregation (CA) mode, the transmitter enabled by 1Tx/3Rx mode.

Downlink CA	Uplink CA
41C-42A	41C
41D	41C
3A-41C-42A	41C
28A-41C-42A	41C
41C-42C	41C
3A-41C-42C	41C

2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

4.2.1 Intra-Band

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

		Te	st Chan	nel			Band	dwidth (MHz)			N	lodulatio	'n	RB #				
Test Items	Band	L	M	н	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Max. Output	41C	v	v	v				v	٧	v	v	v	v	v				v	v
Freqency	41C		٧								v	v							v
		Te	st Chan	nel			Band	dwidth (MHz)			N	lodulatio	n			RB #		
Test Items	Band	L	М	н	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
26dB and 99% Bandwidth	41C		v					v	v	v	v	v	v	v					v
Peak-to-Av erage Ratio	41C		v					v	v	v	v	v	v						v
		Te	st Chan	nel			Band	dwidth (MHz)			N	lodulatio	on			RB #		
Test Items	Band	L	м	н	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	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	٧			v				v
_		Te	st Chan	nel			Band	dwidth (MHz)			N	lodulatio	n			RB #		
Test Items	Band	L	м	н	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left +		Edge right +	Edge right +	Full

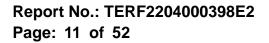
Test Items	Band	L	М	н	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Conducted	41C	٧	v	v				v	v	v	٧	v						v	
		Tes	st Chanı	nel			Band	dwidth (MHz)			N	lodulatio	n			RB #		
Test Items	Band	L	М	Н	10	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Radiated	41C	v	v	v					v			v						v	

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5 MEASUREMENT UNCERTAINTY

Test Items	Und	Uncertain		
RF Power Output	+/-	1	dB	
ERP/ EIRP measurement	+/-	3	dB	
	+/-	3	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	+/-	0.4	°C	
Humidity	+/-	3.5	%	
DC / AC Power Source	+/-	1	%	

Radiated Spurio	us E	missior	n Meas	surement Uncertainty
	+/-	2.57	dB	9kHz~30MHz
Polarization: Vertical	+/-	4.85	dB	30MHz - 1000MHz
Polarization. Vertical	+/-	4.45	dB	1GHz - 18GHz
	+/-	4.24	dB	18GHz - 40GHz
	+/-	2.57	dB	9kHz~30MHz
Polarization: Horizontal	+/-	4.37	dB	30MHz - 1000MHz
	+/-	4.45	dB	1GHz - 18GHz
	+/-	4.24	dB	18GHz - 40GHz

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted E												
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.							
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2021	08/03/2022							
Radio Communication Analyer	Anritsu	MT8821C	6262044670	08/18/2021	08/17/2022							
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022							
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022							
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022							
DC Block	PASTERNACK	PE8210	RF158	11/18/2021	11/17/2022							
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/18/2021	11/17/2022							
Splitter	Woken	DOM35LW1A2	RF255	11/18/2021	11/17/2022							

6.2 Radiated Measurement

		Radiate	d Emission Test Site: SAC G		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/08/2022	04/07/2023
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2022	03/14/2023
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM- 8000-5000-2000	210216 \ 210217 \ 210218	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000- 5000-5000	210219 ` 210220 ` 210221	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000- 15000	210224 ` 210306	03/15/2022	03/14/2023

NOTE: N.C.R refers to Not Calibrated Required.

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(新子方分前の) 「し根音器末僅対例為(二体的資料」)「何可以体的運作者のひくう本様音末途本ならる面前子) 「不うず防後表。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com.tw/Terms-and-Conditions</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com.tw/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, for grey or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. SGS Taiwan Ltd. No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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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.

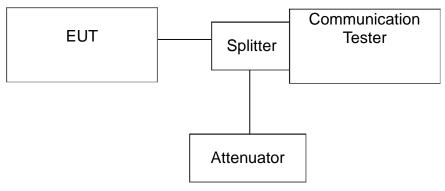
7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 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

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7.3 Output Power Measurement Applicable Guideance

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.

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 PT, typically dBW, dBm, or power spectral density (PSD)2), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
 - P_{τ} = transmitter output power, expressed in dBW, dBm, or PSD;
 - G_{τ} = 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 27 / RSS	—	_imit (W)	2]							A1C (5	MH7 +	20MHz)	
Antenna Gai	n		-0.2		<u></u>									
Bandwidth	PC	C	SC	C1	Modulation		CC 8B		C1 B		Conducte		EIRP	EIRP
Danuwiuun	Earfcn	MHz	Earfcn	MHz	wouulation	Size	Offset	Size	Offset	PCC	erage (dE SCC1	Total	Average (dBm)	Average (W)
	Lanch			IVITIZ		1	24	1	0	15.01	15.24	18.14	17.94	0.062
	39683	2499.3	39800	2511.0	QPSK	25	0	100	0	20.62	13.96	21.47	21.27	0.002
5MHz+						1	24	1	0	14.74	15.11	17.94	17.74	0.059
20MHz	40528	2583.8	40645	2595.5	QPSK	25	0	100	0	20.78	14.49	21.70	21.50	0.141
						1	24	1	0	14.70	15.02	17.87	17.67	0.059
	41373	2668.3	41490	2680.0	QPSK	25	0	100	0	20.57	13.87	21.41	21.21	0.132
				0544.0		1	24	1	0	14.75	14.96	17.87	17.67	0.058
	39683	2499.3	39800	2511.0	16QAM	25	0	100	0	19.75	12.87	20.56	20.36	0.109
5MHz+	40500	0502.0	400.45	0505.5	400.414	1	24	1	0	14.11	14.51	17.32	17.12	0.052
20MHz	40528	2583.8	40645	2595.5	16QAM	25	0	100	0	19.83	13.37	20.71	20.51	0.113
	44070	0000.0	44400	0000.0	100414	1	24	1	0	14.11	14.44	17.29	17.09	0.051
	41373	2668.3	41490	2680.0	16QAM	25	0	100	0	20.51	13.64	21.32	21.12	0.129
	20692	2400.2	20000	2511.0	640444	1	24	1	0	14.12	14.53	17.34	17.14	0.052
	39683	2499.3	39800	2011.0	64QAM	25	0	100	0	19.58	12.87	20.42	20.22	0.105
5MHz+	40528	2583.8	40645	2595.5	64QAM	1	24	1	0	14.15	14.42	17.30	17.10	0.051
20MHz	40520	2000.0	40045	2090.0	04QAW	25	0	100	0	19.80	13.21	20.66	20.46	0.111
	41373	2668.3	41490	2680.0	64QAM	1	24	1	0	14.08	14.32	17.21	17.01	0.050
	41373	2000.5	41450	2000.0	0402/101	25	0	100	0	20.42	13.51	21.23	21.03	0.127
Part 27 / RSS	Part 27 / RSS 199_ EIRP Limit (W)		2			ם דווכ					A1C (1)	омц , ,	- 20MHz)	
Antenna Gai	n		-0.2		0011					DAND	20101112)			
	PC	C	sc	C1			CC		C1		Conducte		EIRP	EIRP
Bandwidth					Modulation		B	RB		Average (dl		-	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39705	2501.5	39849	2515.9	QPSK	1	49	1	0	22.37	20.41	24.51	24.31	0.270
10MHz+						50	0	100	0	20.61	11.26	21.09	20.89	0.123
20MHz	40526	2583.6	40670	2598.0	QPSK	1	49	1	0	22.33	20.46	24.51	24.31	0.269
ZUIVITIZ						50 1	0 49	100 1	0	20.73 22.32	11.78 20.48	21.25	21.05 24.31	0.127
	41346	2665.6	41490	2680.0	QPSK	50	49 0	100	0	22.32	20.40	24.51 21.22	24.31	0.270 0.126
						1	49	100	0	22.08	20.43	24.34	21.02	0.120
	39705	2501.5	39849	2515.9	16QAM	50	49	100	0	19.71	10.33	24.34	19.98	0.200
10MHz+						1	49	1	0	22.19	20.66	24.50	24.30	0.100
20MHz	40526	2583.6	40670	2598.0	16QAM	50	0	100	0	19.75	10.68	20.26	20.06	0.101
						1	49	1	0	22.25	20.54	24.49	24.29	0.268
	41346	2665.6	41490	2680.0	16QAM	50		100	0	19.75	10.53	20.34	20.14	0.200
		0.561 -				1	49	1	0	19.58	18.05	21.89	21.69	0.148
1	39705	2501.5	39849	2515.9	64QAM	50	0	100	0	19.60	10.34	20.09	19.89	0.097
						50								
10MHz+	10500	0500.0	40070	0500.0		1	49	1	0	19.83	18.18	22.09	21.89	0.155
10MHz+ 20MHz	40526	2583.6	40670	2598.0	64QAM				0	19.83 19.72	18.18 10.73	22.09 20.24	21.89 20.04	0.155 0.101
	40526	2583.6 2665.6	40670 41490	2598.0 2680.0	64QAM 64QAM	1	49	1						

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Antenna Gain

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0.2

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

Antenna Gai	n		-0.2		0011	011							10111127	
	PC	c	SC	C1			00		SCC1		Conducte	d	EIRP	EIRP
Bandwidth					Modulation		B		B		erage (dE		Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39725	2503.5	39875	2518.5	QPSK	1	74	1	0	22.36	12.42	22.78	22.58	0.181
	00120	200010		201010	Q. O.	75	0	75	0	20.38	10.63	20.82	20.62	0.115
15MHz+	40545	2585.5	40695	2600.5	QPSK	1	74	1	0	22.27	12.31	22.69	22.49	0.177
15MHz	10010	2000.0	10000	2000.0	di on	75	0	75	0	20.37	10.88	20.83	20.63	0.116
	41365	2667.5	41515	2682.5	QPSK	1	74	1	0	22.12	12.18	22.54	22.34	0.171
		200110		2002.0	Q. O.	75	0	75	0	20.38	10.71	20.82	20.62	0.115
	39725	2503.5	39875	2518.5	16QAM	1	74	1	0	21.95	11.61	22.33	22.13	0.163
	00120	200010		201010		75	0	75	0	19.47	9.77	19.91	19.71	0.094
15MHz+	40545	2585.5	40695	2600.5	16QAM	1	74	1	0	22.06	11.72	22.44	22.24	0.168
15MHz	10010	2000.0	10000	2000.0	i o di ili	75	0	75	0	19.45	10.12	19.93	19.73	0.094
	41365	2667.5	41515	2682.5	16QAM	1	74	1	0	21.97	11.54	22.35	22.15	0.164
	11000	2001.0	11010	2002.0	10 Q/III	75	0	75	0	19.45	9.82	19.90	19.70	0.093
	39725	2503.5	39875	2518.5	64QAM	1	74	1	0	19.60	9.15	19.97	19.77	0.095
	00120	2000.0	00010	2010.0	ordan	75	0	75	0	19.41	9.73	19.85	19.65	0.092
15MHz+	40545	2585.5	40695	2600.5	64QAM	1	74	1	0	19.69	9.25	20.07	19.87	0.097
15MHz	10010	2000.0	10000	2000.0	o ray in	75	0	75	0	19.36	9.95	19.83	19.63	0.092
	41365	2667.5	41515	2682.5	64QAM	1	74	1	0	19.61	9.07	19.98	19.78	0.095
			41010	2002.0	0+0/10	75	0	75	0	19.41	9.68	19.85	19.65	0.092
Part 27 / RSS 199_ EIRP Limit (W)			2	ł	OUTI	PUT P	OWEF	RFOR		BAND	41C (1	5MHz +	- 20MHz)	
Antenna Gan			-0.2	<u> </u>		P	20	SC	C1	(Conducte	d	EIRP	EIRP
Bandwidth	PC	C	SC	C1	Modulation		B		RB		Average (dE		Average	Average
	Earfcn	MHz	Earfcn	MHz	-	Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
						1	74	1	0	22.24	12.08	22.64	22.44	0.175
	39728	2503.8	39899	2520.9	QPSK	75	0	100	0	20.22	10.69	20.68	20.48	0.112
15MHz+						1	74	1	0	22.11	12.08	22.52	22.32	0.171
20MHz	40523	2583.3	40694	2600.4	QPSK	75	0	100	0	20.36	10.85	20.82	20.62	0.115
						1	74	1	0	22.14	12.05	22.55	22.35	0.172
	41319	2662.9	41490	2680.0	QPSK	75	0	100	0	20.26	10.63	20.71	20.51	0.112
						1	74	1	0	21.87	11.37	22.24	22.04	0.160
	39728	2503.8	39899	2520.9	16QAM	75	0	100	0	19.24	9.80	19.71	19.51	0.089
15MHz+	40.500		10001			1	74	1	0	21.96	11.47	22.33	22.13	0.163
20MHz	40523	2583.3	40694	2600.4	16QAM	75	0	100	0	19.31	9.96	19.79	19.59	0.091
	44040	0000.0	44400	0000.0	400.004	1	74	1	0	21.87	11.37	22.24	22.04	0.160
	41319	2662.9	41490	2680.0	16QAM	75	0	100	0	19.34	9.71	19.79	19.59	0.091
	20700	0500.0	20000	0500.0		1	74	1	0	19.50	8.88	19.86	19.66	0.092
	39728	2503.8	39899	2520.9	64QAM	75	0	100	0	19.23	9.77	19.70	19.50	0.089
15MHz+	40500	0500.0	40004	0000.4		1	74	1	0	19.56	8.87	19.92	19.72	0.094
20MHz	40523	2583.3	40694	2600.4	64QAM	75	0	100	0	19.32	9.82	19.78	19.58	0.091
	44040	0000.0	44.400	0000.0	640444	1	74	1	0	19.53	8.87	19.89	19.69	0.093
	41319	2662.9	41490	2680.0	64QAM	75	0	100	0	19.24	9.69	19.70	19.50	0.089
		1	1		1	(5	0	100	0	19.24	9.69	19.70	19.50	0.089

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20MHz+ 39750 2506.0 39867 2517.7 QPSK 1 99 1 0 2 20MHz+ 40595 2590.5 40712 2602.2 QPSK 1 99 1 0 2	Conducte Average (dl PCC SCC1	ed	EIRP	EIRP
Bandwidth PCC SCC1 Modulation RB RB Earfcn MHz Earfcn MHz Size Offset Size Offset I 0 2 39750 2506.0 39867 2517.7 QPSK 1 99 1 0 2 20MHz+ 40595 2590.5 40712 2602.2 QPSK 1 99 1 0 2	Average (dl			
Earfcn MHz Earfcn MHz Size Offset Size Offset 39750 2506.0 39867 2517.7 QPSK 1 99 1 0 2 20MHz+ 40595 2590.5 40712 2602.2 QPSK 1 99 1 0 2			Average	Average
20MHz+ 40595 2590.5 40712 2602.2 OPSK 1 99 1 0 2		Total	(dBm)	(W)
20MHz+ 40595 2590.5 40712 2602.2 OPSK 1 99 1 0 2	20.15 19.00	22.62	22.42	0.175
40595 2590 5 40712 2602 2 OPSK	20.71 10.83	21.13	20.93	0.124
40595 2590.5 40712 2602.2 QPSK 400	20.07 18.91	22.54	22.34	0.171
5MHz 10000 25 0 2	20.88 11.18	21.32	21.12	0.129
41440 2675.0 41557 2686.7 QPSK 1 99 1 0	19.88 18.76	22.37	22.17	0.165
41440 2013.0 41337 2000.7 QP3K 100 0 25 0 2	20.98 10.83	21.38	21.18	0.131
39750 2506.0 39867 2517.7 16QAM 1 99 1 0 2	20.05 18.90	22.52	22.32	0.171
39730 2300.0 33007 2317.7 1002AW 100 0 25 0	19.94 9.98	20.36	20.16	0.104
20MHz+ 40595 2590.5 40712 2602.2 16QAM 1 99 1 0 2	20.01 18.82	22.47	22.27	0.168
5MHz 40000 2000.0 40112 2002.2 1002.0 100 0 25 0 1	19.99 10.23	20.43	20.23	0.105
41440 2675.0 41557 2686.7 16QAM 1 99 1 0	19.85 18.71	22.33	22.13	0.163
100 0 25 0 1	19.95 9.88	20.36	20.16	0.104
39750 25060 39867 25177 640AM	18.00 17.12	20.59	20.39	0.109
	19.84 9.94	20.26	20.06	0.101
1 40595 25905 40712 26022 640AM	17.56 16.68	20.15	19.95	0.099
5MHz 100 0 25 0	19.84 10.17	20.28	20.08	0.102
1 41440 26750 41557 26867 640AM	17.62 16.52	20.12	19.92	0.098
	19.94 9.87	20.35	20.15	0.103
Part 27 / RSS 199_EIRP Limit (W) 2 Antonna Gain 0.2 OUTPUT POWER FOR LTE BA	AND 41C (2	0MHz +	⊦ 10MHz)	
-0.2				
Bandwidth PCC SCC1 Modulation RB RB	Conducte		EIRP	EIRP
	Average (dl PCC SCC1	om) Total	Average (dBm)	Average (W)
	22.74 12.44	23.13	22.93	0.196
39750 2506 0 39894 2520 4 OPSK	20.68 10.99	21.12	20.92	0.130
20MHz+ 1 00 1 0 1	22.65 13.42	23.14	22.94	0.197
40571 2588 1 40715 2602 5 OPSK	20.76 11.21	21.22	21.02	0.126
	22.70 12.43	23.09	22.89	0.195
L 41391 2670 1 41535 2684 5 QPSK	20.86 10.93	21.28	21.08	0.128
	22.37 11.67	22.72	22.52	0.179
39750 2506.0 39894 2520.4 16QAM 100 0 50 0	19.72 10.12	20.17	19.97	0.099
20MHz+ 05574 05594 40745 05595 40544 1 99 1 0 2	22.52 11.81	22.87	22.67	0.185
2011 L2 40571 2588.1 40715 2602.5 16QAM 1 55 1 6 2 10MHz 40571 2588.1 40715 2602.5 16QAM 100 0 50 0 2	19.87 10.25	20.32	20.12	0.103
	22.45 11.78	22.81	22.61	0.182
41391 2670.1 41535 2684.5 16QAM 100 0 50 0	19.89 10.02	20.32	20.12	0.103
39750 2506.0 39894 2520.4 64QAM 1 99 1 0	19.97 9.24	20.32	20.12	0.103
39750 2506.0 39894 2520.4 64QAM 100 0 50 0	19.70 10.01	20.14	19.94	0.099
20MHz+ 40571 2588.1 40715 2602.5 64QAM 1 99 1 0 2	20.20 9.34	20.54	20.34	0.108
10MHz 40371 2308.1 40715 2002.5 04QAWI 100 0 50 0	19.71 10.32	20.18	19.98	0.100
41391 2670.1 41535 2684.5 64QAM 1 99 1 0 2	20.07 9.26	20.42	20.22	0.105
	19.81 10.01	20.24	20.04	0.101

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SGS Taiwan Ltd.



2

Part 27 / RSS 199_ EIRP Limit (W)

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

Antenna Gair	Antenna Gain		-0.2		0011		OWER	FUR		DANU	416 (2				
	PC	c	SC	C1		P	PCC SCC1			(Conduct	ed		EIRP	EIRP
Bandwidth				•	Modulation	R	B		B		erage (o	IBm)		Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1		otal	(dBm)	(W)
	39750	2506.0	39921	2523.1	QPSK	1	99	1	0	22.08	12.27		2.51	22.31	0.170
		2000.0				100	0	75	0	20.22	10.72		0.68	20.48	0.112
20MHz+	40546	2585.6	40717	2602.7	QPSK	1	99	1	0	21.97	12.28		2.41	22.21	0.166
15MHz	10010	2000.0				100	0	75	0	20.28	10.82).75	20.55	0.113
	41341	2665.1	41512	2682.2	QPSK	1	99	1	0	21.96	12.18		2.39	22.19	0.166
						100	0	75	0	20.24	10.61		0.69	20.49	0.112
	39750	2506.0	39921	2523.1	16QAM	1	99	1	0	21.74	11.43		2.13	21.93	0.156
201411-1						100	0	75	0	19.25	9.84		9.72	19.52	0.090
20MHz+	40546	2585.6	40717	2602.7	16QAM	1	99	1	0	21.85	11.51		2.23	22.03	0.160
15MHz						100 1	0 99	75 1	0	19.26	9.95		9.74	19.54	0.090
	41341	2665.1	41512	2682.2	16QAM	100	99	75	0	21.78 19.34	11.38 9.61		2.16 9.78	21.96 19.58	0.157
						100	99	15	0	19.34	9.01		9.70 9.75	19.55	0.091
	39750	2506.0	39921	2523.1	64QAM	100	99 0	75	0	19.35	9.14		9.68	19.55	0.090
20MHz+						100	99	1	0	19.48	9.13		9.86	19.66	0.093
15MHz	40546	2585.6	40717	2602.7	64QAM	100	0	75	0	19.26	9.88		9.73	19.53	0.090
						100	99	1	0	19.31	9.01		9.70	19.50	0.089
	41341	2665.1	41512	2682.2	64QAM	100	0	75	0	19.29	9.61		9.73	19.53	0.090
Part 27 / RSS	199 EIRF	P Limit (W)	2												
Antenna Gai			-0.2		OUTP	UT P	OWER	RFOR	<u>R LTE</u>	BAND	41 (2	20M	Hz + 2	<u>0MHz)</u>	
	PCC					F	209		SCC1		Cond	lucte	d	EIRP	EIRP
Bandwidth		PCC			Modulation		RB		RB		Averag	je (dE	3m)	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offs	et PC	C SO	CC1	Total	(dBm)	(W)
	39750	2506.0	39948	2525.8	QPSK	1	99	1	0	22.0	6 12	2.12	22.48	22.28	0.169
	55750	2000.0	00040	2020.0	QLOIC	100	0	100	0	20.0	9 10	.84	20.58	20.38	0.109
20MHz+	40521	2583.1	40719	2602.9	QPSK	1	99	1	0	22.0	1 12	2.05	22.43	22.23	0.167
20MHz	40321	2000.1	40713	2002.5	QLOIC	100	0	100	0	20.2	5 10	.99	20.74	20.54	0.113
	41292	2660.2	41490	2680.0	QPSK	1	99	1	0	21.9	4 12	2.03	22.36	22.16	0.165
	41232	2000.2	41430	2000.0	QLOIC	100	0	100	0	20.1	9 10	.56	20.64	20.44	0.111
	39750	2506.0	39948	2525.8	16QAM	1	99	1	0	21.8	3 11	.37	22.20	22.00	0.159
	39750	2500.0	39940	2020.0	TOQAW	100	0	100	0	19.2	1 9	.99	19.70	19.50	0.089
20MHz+	40521	2583.1	40719	2602.9	16QAM	1	99	1	0	21.8	7 11	.41	22.24	22.04	0.160
20MHz	40521	2003.1	40719	2002.9	IOQAW	100	0	100	0	19.4	7 9	.99	19.93	19.73	0.094
	41202	2660.2	41400	2600.0	160 AM	1	99	1	0	21.8	4 11	.27	22.21	22.01	0.159
	41292	2660.2	41490	2680.0	16QAM	100	0	100	0	19.2	5 9	.63	19.70	19.50	0.089
	20750	2500.0	20040	0505.0	GACANA	1	99	1	0	19.4	0 8	.93	19.77	19.57	0.091
	39750	2506.0	39948	2525.8	64QAM	100	0	100	0	19.1	8 9	.94	19.67	19.47	0.088
20MHz+	40504	0500.4	40740	0000.0	C40 AN4	1	99	1	0	19.4	6 9	.01	19.83	19.63	0.092
20MHz	40521	2583.1	40719	2602.9	64QAM	100	0	100	0	19.3	3 9	.82	19.79	19.59	0.091
	44000	0000.0	44.400	0000.0	C40 AN4	1	99	1	0	19.3		.85	19.76	19.56	0.090
	41292	2660.2	41490	2680.0	64QAM	100	0	100		19.1		.69	19.65	19.45	0.088
	1		1		1	1	-				Ű		1		

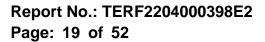
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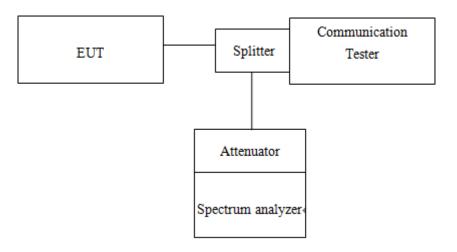


8 OCCUPIED BANDWIDTH MEASUREMENT

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 $1\% \sim 5\%$ of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= $1\% \sim 5\%$, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4 **Measurement Result**

LTE BAND 41C

Band	Bandwidth	RB Allocation/RB	Freqency		99% BW (MHz)			26 dB BW (MHz)	
		Offset	(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 41C	5MHz + 20MHz	25/0 + 100/0	2593.0	22.901	22.829	22.864	25.21	26.45	24.06
LTE BAND 41C	20MHz + 5MHz	100/0 + 25/0	2593.0	22.883	22.934	22.852	24.22	25.4	25.46
LTE BAND 41C	10MHz + 20MHz	50/0 + 100/0	2593.0	27.773	27.735	27.799	30.33	34.56	31.7
LTE BAND 41C	20MHz + 10MHz	100/0 + 50/0	2593.0	27.761	27.767	27.735	30.11	30.39	33.98
LTE BAND 41C	15MHz + 15MHz	75/0 + 75/0	2593.0	28.34	28.419	28.311	31.58	34.12	30.22
LTE BAND 41C	15MHz + 20MHz	75/0 + 100/0	2593.0	32.616	32.717	32.663	38.37	37.46	34.43
LTE BAND 41C	20MHz + 15MHz	100/0 + 75/0	2593.0	32.591	32.719	32.602	35.4	36.86	34.78
LTE BAND 41C	20MHz + 20MHz	100/0 + 100/0	2593.0	37.527	37.661	37.592	41.23	41.69	44.41

Band41_5MHz+20MHz_QPSK_RB25-0+RB100-0_CH40528+CH40645

Keysight Spect	trum Analyzer - Occupied BV	N				
R Center Fre	eq 2.593000000	- Grite	SENSE:DVT Center Freq: 2.593000 Frig: Free Run Atten: 30 dB	ALIGN AUTO 0000 GHz Avg Hold:>10/10	Radio Device: BTS	Frequency
10 dB/div	Ref Offset 15.1 di Ref 30.00 dBn					
20.0	m	Turner	uninerstandin maria	m-inderit in-ang		Center Free 2.593000000 GHz
10.0 20.0	un Marchael M				14 Weller Marktonite	
-30.0						
center 2.5					Span 40 MHz	CF Step
Res BW			#VBW 1.5 MI		Sweep 1 ms	4.000000 MHz Auto Man
Occup	ied Bandwidt 22	n 2.901 MH	Total Po	ower 31.	2 dBm	FreqOffset
	iit Freq Error Indwidth	-158.35 kH 25.21 MH			9.00 % 6.00 dB	0 Ha
195				STAT	05	

Band41 5MHz+20MHz 16QAM RB25-0+RB100-0 CH40528+CH40645

02:24:58 PHNay 2 Partic Std. None nter Freq 2.593000000 GHz Frequenc Radio Device: BTS Ref Offset 15.1 dB Ref 30.00 dBm Center Fre ·林. 台标/开 Manzalange 2.593 GHz Span 40 MHz Sweep 1 ms CF Step #VBW 1.5 MHz Occupied Bandwidth 30.7 dB Total Pow 22.829 MHz Freq Offse -196.93 kHz 0 H Transmit Freq Error **OBW** Power 99.00 % dB Bandwidth 26.45 MHz x dB -26.00 dB

Band41_5MHz+20MHz_64QAM_RB25-0+RB100-0_CH40528+CH40645

Frequency	None	Radio Devi	ALIGN AUTO : 10/10	Avg Hold			GHz AFGain:Low		2.59300	ter Fred
									Ref Offset Ref 40.0	B/div
Center Fro 2.593000000 Gi							~~~			
			manner	and the second	Saucia narrow	150/550arel	Consider	1		
	And	Vanama						(halphan	dudford
						-				
CF Ste 4.000000 Mil	n 40 MHz ep 1 ms			MHz	BW 1.5 N	#\				ter 2.59 sBW 5
Auto M		8 dBm	30.	ower	Total P	Hz	864 MI		ed Band	ccupie
01		9.00 %	99	ower	OBW P	kHz	-135.38	ror	Freq Err	ransmit
		00 dB	-26		x dB	MHz	24.06 N		dwidth	dB Ban

Band41 20MHz+5MHz QPSK RB100-0+RB25-0 CH40595+CH40712

R	trum Analyzer - Occupied RF 50 g DC eq 2.59300000	0 GHz Cent	sense:mt er Freq: 2.593000000 GHz Free Run Avg Hold n: 30 dB	Radio Std:		Frequency
10 dB/div	Ref Offset 15.1 Ref 30.00 dE					
20.0 10.0	- r	an a	manaur			Center Free 2.593000000 GH
10.0	un philaden			MARANAN	malulae	
-40.0						
Center 2.5 #Res BW			FVBW 1.5 MHz		a 40 MHz ep 1 ms	CF Ste 4.000000 MH
Occup	ied Bandwid	ith	Total Power	31.6 dBm		<u>Auto</u> Mar
	2	2.883 MHz				Freq Offse
Transm	it Freq Error	73.601 kHz	OBW Power	99.00 %		0 H:
x dB Ba	andwidth	24.22 MHz	x dB	-26.00 dB		
495				STATUS		

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Band41_20MHz+5MHz_16QAM_RB100-0+RB25-0_CH40595+CH40712

Keysight Spectrum Analyzer - Occupi						
R R 58 2 Center Freq 2.5930000	00 GHz Ce	SENSE:INT tter Freq: 2.593000000 GHz g: Free Run Avg Holi tten: 30 dB	align auto d: 10/10	Radio Std Radio Dev		Frequency
Ref Offset 15 0 dB/div Ref 30.00 c						
10.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mannam	suma			Center Fre 2.593000000 GH
				Manata	Antherstore	
800 500						
Center 2.593 GHz Res BW 510 kHz		#VBW 1.5 MHz			n 40 MHz ep 1 ms	CF Ste 4.000000 MH
Occupied Bandw		Total Power	30.8	dBm		<u>Auto</u> Ma
	22.934 MHz					Freq Offse
Transmit Freq Error x dB Bandwidth	40.907 kHz 25.40 MHz	OBW Power x dB		.00 % 00 dB		UH
53			STATUS			

Band41_20MHz+5MHz_64QAM_RB100-0+RB25-0_CH40595+CH40712

Keysight Spec	trum Analyzer - Occupied BW	/					- CT - CF
R Center Fre	eq 2.593000000	GHz Cent	sense:bit er Freq: 2.593000000 GHz Free Run AvgiHol	ALEGN AUTO	Radio Std	None	Frequency
		#FGain:Low #Atte	n: 30 dB	0:>10/10	Radio Dev	ice: BTS	
10 dB/div	Ref Offset 15.1 dl Ref 30.00 dBm						
00 0.0 10.0		in an		(mar and a	1		Center Fre 2.593000000 GH
	nomment				Wadna	WARDEN	
800 100 100							
Center 2.5			#VBW 1.5 MHz			n 40 MHz ep 1 ms	CF Step 4.000000 MH
Occup	ied Bandwidt	h	Total Power	31.	1 dBm		<u>Auto</u> Mar
	22	2.852 MHz					Freq Offse
Transm	nit Freq Error	70.292 kHz	OBW Power	9	9.00 %		0 H:
x dB Ba	andwidth	25.46 MHz	x dB	-26	.00 dB		
50				STAT	5		

Band41_10MHz+20MHz_QPSK_RB50-0+RB100-0_CH40526+CH40670

Keysight:	Spectrum Analyzer - Occupied B	W				
enter	Freq 2.59300000	Trig:	sense INT r Freq: 2.593000000 GHz Free Run AvgiHold n: 30 dB	R 10/10	11:40:16 AM May 25, 2022 adio Std: None adio Device: BTS	Frequency
10 dB/div	Ref Offset 15.1 d Ref 30.00 dB					
20.0 10.0	Junioren	and and	mana the second		-	Center Free 2.593000000 GHa
10.0 20.0 k.đ	not why				Villeturineedu	
40.0 50.0						
	2.593 GHz N 620 kHz		VBW 2 MHz		Span 40 MHz Sweep 1 ms	CF Step
	upied Bandwid	th	Total Power	31.8 d		4.000000 MH Auto Mar
	2 smit Freq Error Bandwidth	7.773 MHz -70.105 kHz 30.33 MHz	OBW Power x dB	99.0 -26.00		Freq Offse 0 H
55				STATUS		

nter Freq 2.593000000 GHz Avgillet 11:47:03 AM May 2 Radio Std: None Padio Davice: BTS Offset 15.1 (30.00 dB Center Fre h hold balater, Span 40 MH 2.593 GH CF Ste #VBW 2 MHz Total Power 30.9 dBm **Occupied Bandwidth** 27.735 MHz Freq Offs 01 -85.700 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 34.56 MHz -26.00 dB x dB

Band41_10MHz+20MHz_16QAM_RB50-0+RB100-0_CH40526+CH40670

Band41_10MHz+20MHz_64QAM_RB50-0+RB100-0_CH40526+CH40670

	ectrum Analyzer - Occupied BV	N					
Center Fi	req 2.593000000	man Tri	sense:pri Iter Freq: 2.593000000 GHz g: Free Run AvgiHo ten: 30 dB	ALIGN AUTO ald: 10/10	Radio De		Frequency
10 dB/div	Ref Offset 15.1 d Ref 40.00 dBn	n					Center Free
10.0	N HIV	energe freeze	provenante realization	-ntransmit	ling		2.59300000 GH
20.0 Had	dudiV				Å	Helen	
Center 2.			#VBW 2 MHz			an 40 MHz eep 1 ms	CF Ste
	pied Bandwidt	h 7.799 MHz	Total Power	30.9	dBm	eep mis	4.000000 MH Auto Ma
	nit Freq Error andwidth	-82.108 kHz 31.70 MHz	OBW Power x dB		0.00 % 00 dB		0 H

Band41_15MHz+15MHz_QPSK_RB75-0+RB75-0_CH40545+CH40695

R Contor Er	reg 2.593000000	CHa Cent	SENSE:INT Freq: 2.593000000 GHz	ALIGN AUTO	09:56:10 A	M May 25, 2022	Frequency
Jenner Pr	req 2.59500000	Trig:	Free Run Avg Hol n: 30 dB	id: 10/10	Radio Dev		
10 dB/div	Ref Offset 15.1 d Ref 30.00 dBn						
20.0 10.0		14/1999-14/1997-14/1997-1977-1977-1977-1977-1977-1977-1977	n monomo	haraft yr hereby	ma		Center Fre 2.593000000 GH
0.00		_	V				
10.0 Alles	JM.					likheuny	
0.0				-			
8.0							
50.0							
	.593 GHz 620 kHz		VBW 2 MHz			n 40 MHz ep 1 ms	CF Ste 4.000000 M8
Occur	pied Bandwidt	h	Total Power	31.9	dBm		Auto M
e e e e e e		3.340 MHz					FreqOffs
Transn	nit Freq Error	-41.349 kHz	OBW Power	99	.00 %		01
x dB B	andwidth	31.58 MHz	x dB	-26.	00 dB		
95				STATUS	5		

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Band41 15MHz+15MHz 16QAM RB75-0+RB75-0 CH40545+CH40695

R	RF 38 2 DC 2 87 2.593000000	GHz Cente	SENSE:INT	Rad	:57:26 AM May 25, 2022 lio Std: None	Frequency
		#FGain:Low #Atter	Free Run Avg Hold h: 30 dB		tio Device: BTS	
0 dB/div	Ref Offset 15.1 dl Ref 30.00 dBm					
20.0	and a second second	www.energerthy.marker.mal	لمنتصحك والمراجعي			Center Fre
0.0			V		1	2.593000000 GH
			*		Martine	
30.0					news course	
50.0						
60.0						
Center 2.5 Res BW (#	VBW 2 MHz		Span 40 MHz Sweep 1 ms	CF Ste 4.000000 MH
Occup	ied Bandwidt	h	Total Power	31.1 dB	im	Auto Ma
	28	3.419 MHz				Freq Offse
	it Freq Error	-57.808 kHz	OBW Power	99.00	%	он
x dB Ba	ndwidth	34.12 MHz	x dB	-26.00 c	IB	
55				STATUS		

Band41_15MHz+15MHz_64QAM_RB75-0+RB75-0_CH40545+CH40695

Keysight Spec	ctrum Analyzer - Occupied Bi	N				
enter Fr	eq 2.593000000	Trig:	sense:mt r Freq: 2.593000000 GHz Free Run AvgiHold n: 30 dB	: 10/10	10:00:25 AM May 25, 20 Radio Std: None Radio Device: BTS	Frequency
10 dB/div	Ref Offset 15.1 d Ref 30.00 dBr					
.09 20.0 10.0	manus	hered and a state of the state	Januar	-19-00-00-00-00-00-00-00-00-00-00-00-00-00		Center Fre 2.593000000 GH
ao 200 Jan ia	wp/		¥		Malain Market	
80.0 10.0 10.0						-
Center 2. Res BW			VBW 2 MHz		Span 40 MH Sweep 1 m	
Occup	ied Bandwidt	th	Total Power	31.0	lBm	Auto Ma
	28	3.311 MHz				FreqOffse
	nit Freq Error	-42.406 kHz	OBW Power	99.0	0 %	0 H
x dB B	andwidth	30.22 MHz	x dB	-26.0) dB	
93				STATUS		

Band41_20MHz+10MHz_QPSK_RB100-0+RB50-0_CH40571+CH40715

R	Spectrum Analyzer - Occupied Bi RF 50 Q DC		SENSE:DUT		ALEGN AUTO	11:03:00 Radio St	AM May 25, 2022	Frequency
Center	Freq 2.59300000	Time Ti	Center Freq: 2.593000000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB				a: None	
10 dB/div	Ref Offset 15.1 d Ref 30.00 dBr							
20.0 10.0	Junton	ator and a star a star a star		· Jum	*****	man		Center Free 2.593000000 GHz
10.00	1			0				
20.0	vhuhhl					4	Alabahan	
40.0								
50.0 60.0								
	2.593 GHz N 620 kHz		#VBW 2 M	IHz			an 40 MHz eep 1 ms	CF Step 4.000000 MH
Occi	upied Bandwidt	th	Total	Power	31.7	dBm		<u>Auto</u> Mar
	27	7.761 MHz						Freq Offset
Trans	smit Freq Error	107.71 kHz	OBW	Power	99	.00 %		0 H:
x dB	Bandwidth	30.11 MHz	x dB		-26.	00 dB		
195					STATUS	5		

Band41_20MHz+10MHz_16QAM_RB100-0+RB50-0_CH40571+CH40715 11:03:53 AM May 2 Radio Std: None nter Freq 2.593000000 GHz AvgiHold: 10/10 Center Freq: 2.5 Trig: Free Run Radio Device: BTS Offset 15.1 (30.00 dB Center Fre MAMAR Harrison Span 40 MH r 2.593 GHz CF Ste #VBW 2 MHz Total Power 31.0 dBm **Occupied Bandwidth** 27.767 MHz Freq Offs 01 72.883 kHz 99.00 % Transmit Freq Error **OBW Power** x dB Bandwidth 30.39 MHz -26.00 dB x dB

Band41_20MHz+10MHz_64QAM_RB100-0+RB50-0_CH40571+CH40715

Frequency	None None			ALIGN AUTO	0000 GHz	NSE:INT reg: 2.59300	Center F	17	0000 GH		RF 2.59	enter Fr
	ice: BTS	Radio Device: BTS			Trig: Free Run Avg Hold:>10/10 #Atten: 30 dB			Gain:Low				
									15.1 dB 0 dBm			dB/div
Center Fre		_	-	n fi jarak aparta	سىمى ا	يشهان والعرفين		Hermonicarithe	and a second and a s			
2.59300000 GP		1			V							
	Wandow	W									ul V	in why
		-								+		1.0
												1.0
		-								+	-	1.0
CF Ste 4.000000 MH	n 40 MHz ep 1 ms	Spa Swe			z	3W 2 MH	#VE					enter 2.: Res BW
Auto Ma		m) dBr	31.0	ower	Total P			width	and	ied Ba	Occup
Freq Offse							lz	35 MI	27.7			
0 H		%	.00 9	99	kHz OBW Power			126.75	Transmit Freq Error 126.7		Transn	
		в	00 d	-26.		x dB	IHz	33.98 N		ith	ndwid	x dB B

Band41_15MHz+20MHz_QPSK_RB75-0+RB100-0_CH40523+CH40694

Keysight Spe	ctrum Analyzer - Occupied Bi	V				
Center Fr	req 2.593000000	Trig:	sense:prit in Freq: 2.593000000 GHz Free Run AvgiHol n: 30 dB	align auto d: 10/10	09:07:20 AM May 25, 20 Radio Std: None Radio Device: BTS	Frequency
10 dB/div	Ref Offset 15.1 d Ref 30.00 dBr					
20.0 10.0	- Jana		and mensions			Center Fre 2.593000000 GH
10.0 20.0 6	addides.ell ^d	,			Metholiterstant	
30.0 40.0 50.0						_
Center 2.			VBW 2.2 MHz		Span 55 MH Sweep 1 m	
	pied Bandwidt		Total Power	31.8	dBm	Auto Ma
	32	2.616 MHz				Freq Offs
Transn	nit Freq Error	-133.33 kHz	OBW Power	99	.00 %	0 H
x dB B	andwidth	38.37 MHz	x dB	-26.	00 dB	
155				STATUS		

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Band41_15MHz+20MHz_16QAM_RB75-0+RB100-0_CH40523+CH40694

Keysight Spectrum Analyzer - Or							E	
	2 DC	-	SENSE:INT ALIGN AUTO			M May 25, 2022	Frequency	
Center Freq 2.5930	#FGain:Lo	Trig: I				vice: BTS		
Ref Offse 10 dB/div Ref 30.0								
20.0		monty	monorener	Same la mar			Center Fre	
0.0		V			1		2.593000000 GH	
an un he allalited					han	athanstor		
30.0		_			Station 44	and the second		
0.0								
50.0					-			
Center 2.593 GHz Res BW 680 kHz		#	VBW 2.2 MHz		Spa	n 55 MHz eep 1 ms	CF Ste 5.500000 MH	
Occupied Band	dwidth	1	Total Powe	r 30.	9 dBm		<u>Auto</u> Ma	
	32.717	MHz					Freq Offse	
Transmit Freq Er		56 kHz	OBW Powe		9.00 %		01	
x dB Bandwidth	37.4	16 MHz	x dB	-26	.00 dB			
sg								
a				STATL	75			

Band41_15MHz+20MHz_64QAM_RB75-0+RB100-0_CH40523+CH40694

Keysight Spec	ctrum Analyzer - Occupied B	W				-cr@- #3
Center Fr	req 2.59300000	Trig:	senseitht r Freq: 2.593000000 GHz Free Run Avg Hold n: 30 dB	Radio 1 10/10	25 AM May 25, 2022 Std: None Device: BTS	Frequency
10 dB/div	Ref Offset 15.1 c Ref 30.00 dB					
.0g 20.0 10.0	m	mandaman	manualina	antinenting .		Center Fre 2.593000000 GH
	formality	- V		Wko	Jattle da polis	
0.0						
enter 2. Res BW			VBW 2.2 MHz		pan 55 MHz weep 1 ms	CF Ste 5.50000 MH
Occup	ied Bandwid	th	Total Power	30.9 dBm		<u>Auto</u> Ma
	3	2.663 MHz				Freq Offse
	nit Freq Error andwidth	-88.328 kHz 34.43 MHz	OBW Power x dB	99.00 % -26.00 dB		0 H
93				STATUS		

Band41_20MHz+15MHz_QPSK_RB100-0+RB75-0_CH40546+CH40717

Keysight S	Spectrum Analyzer - Occup		SENSE: IN	-	ALEGN AUTO	103-30-43 0	HMay 24, 2022	
Center	Freq 2.593000	000 GHz	Center Freq: 2.593000000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			Radio Std. Radio Dev	None	Frequency
10 dB/div	Ref Offset 1 Ref 30.00							
20.0 10.0		not and an an	- annora	pinner	wee-whene			Center Free 2.593000000 GHz
10.00 -10.0 -20.0	elder Harden Miller					bellorts	Andthein	
40.0								
	2.593 GHz N 680 kHz		#VBW :				n 55 MHz ep 1 ms	CF Step
	upied Bandw		To	tal Power	31.9	dBm	epins	5.500000 MH Auto Mar
	smit Freq Erro Bandwidth	32.591 M or 18.320 35.40 I	kHz OB	W Power B		.00 % 00 dB		Freq Offset 0 Ha
55					STATU	1		

Frequency		Radio Std	ALIGN AUTO	93000000 GHz Avg Hold		Trig: I		q 2.59300	iter Fre
								Ref Offset Ref 30.0	B/div
Center Fre 2.593000000 GH			*****		many pro	and the second second second	m		
		1	-		V		4	1	
	lanonture	Walaratha						utwild W	chatal
		-	-	-	_			-	
CF Ste 5.500000 MH	n 55 MHz ep 1 ms			2 MHz	VBW 2.2	#			s BW
Auto Ma		1 dBm	31.	Power	Total		width	ed Band	ccup
Freq Offs						719 MHz	32.		
01		9.00 %	99	Power	OBW	32.206 kHz	ror	t Freq En	ransm
		.00 dB	-26.		x dB	36.86 MHz		ndwidth	dB Ba

Band41 20MHz+15MHz 16QAM RB100-0+RB75-0 CH40546+CH40717

Band41_20MHz+15MHz_64QAM_RB100-0+RB75-0_CH40546+CH40717

Keysight Spe	etrum Analyzer - Occupied BW						-c
enter Fi	req 2.593000000	Trig:	SENSEINT ALIGN AUTO Center Freq: 2.593000000 GHz Trig: Free Run Avg Hold:>10/10 #Atten: 30 dB			MHay 24, 2022 I: None vice: BTS	Frequency
0 dB/div .og 20.0	Ref Offset 15.1 dB Ref 30.00 dBm		and companying	-			Center Free
	eolabad Will				hllen		2.593000000 GH
Center 2. Res BW	593 GHz 680 kHz		VBW 2.2 MHz			in 55 MHz eep 1 ms	CF Step 5.500000 MH Auto Ma
Occup	pied Bandwidt 32	h 2.602 MHz	Total Power	31.1	dBm		FreqOffse
	nit Freq Error andwidth	37.128 kHz 34.78 MHz	OBW Power x dB		9.00 % 00 dB		0 H:

Band41_20MHz+20MHz_QPSK_RB100-0+RB100-0_CH40521+CH40719

Keysight Spect	RF 30.9 DC	v	9	NSE:INT			11:24:51 4	M May 24, 2022	
Center Fre	eq 2.59300000	AFGain:Low		Freq: 2.5930 ae Run			Radio Std Radio Dev	None	Frequency
0 dB/div	Ref Offset 15.1 d Ref 30.00 dBr			_					
20.0 10.0		manne	monnea	Varmen	a ray in a fa	-			Center Fre 2.593000000 GH
0.0 8.0 mit (1.1	-			Y		Lui	اليولويور الرص	have the second	
80.0			-						
enter 2.5 Res BW			#V	BW 2.4 N	MHz			n 80 MHz ep 1 ms	CF Ste 8.000000 MP
Occup	ied Bandwidt	th 7.527 M	H7	Total F	ower	31.9	dBm		<u>Auto</u> Mi
	it Freq Error	-61.218	kHz	OBW F	ower		.00 % 00 dB		Freq Offs 0 F
95						STATUS			

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Band41_20MHz+20MHz_16QAM_RB100-0+RB100-0_CH40521+CH40719

R R SF 50 0C Center Freq 2.593000000	Trig	sense:nrt er Freq: 2.593000000 GHz Free Run Avg Hold en: 30 dB	Radi 1: 10/10	25:39 AM May 24, 2022 lo Std: None lo Device: BTS	Frequency
Ref Offset 15.1 d 10 dB/div Ref 40.00 dBr					
20.0		and Brownson and			Center Free 2.593000000 GHz
		V	Month	hiptoweekiernon (j	
40.0					
Center 2.593 GHz Res BW 820 kHz		#VBW 2.4 MHz		Span 80 MHz Sweep 1 ms	CF Step 8.000000 MH
Occupied Bandwidt	h 7.661 MHz	Total Power	31.2 dB	m	Auto Ma
Transmit Freq Error x dB Bandwidth	-52.477 kHz 41.69 MHz	OBW Power x dB	99.00 -26.00 d		0 H
sg			STATUS		

Band41_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH40521+CH40719

Keysight Spec	ctrum Analyzer - Occupied Bi	11			
Center Fr	req 2.593000000	Trig:	sense:m er Freq: 2.593000000 GHz Free Run AvgiHold en: 30 dB	ALIGN AUTO 11:26:57 AM May 24, Radio Std; None : 10/10 Radio Device: BTS	Frequency
10 dB/div	Ref Offset 15.1 d Ref 30.00 dBr				
20.0 10.0		perpendence	mananan		Center Fre 2.593000000 GH
	in ministration			Lady deal survey and an	*~
40.0					
Center 2.5 #Res BW			#VBW 2.4 MHz	Span 80 M Sweep 1	IHZ CF Ste ms 8,000000 MH
Occup	ied Bandwidt	th	Total Power	31.2 dBm	Auto Ma
	37	7.592 MHz			Freq Offse
Transm	nit Freq Error	-4.209 kHz	OBW Power	99.00 %	0 H
x dB Ba	andwidth	44.41 MHz	x dB	-26.00 dB	
isg				STATUS	

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OUT OF BAND EMISSION AT ANTENNA TERMINALS 9

9.1 **Standard Applicable**

FCC §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 log(P) dB.

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 that 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.

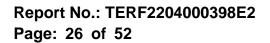
Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission 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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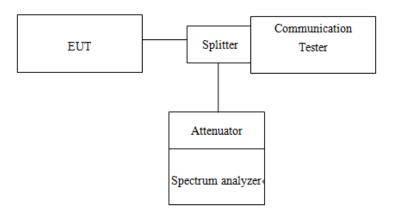
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9.2 Test SET-UP



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.
- The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 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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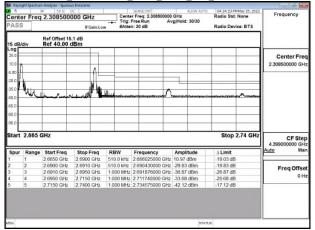


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Band41_5MHz+20MHz_QPSK_RB1-0_1-0_CH39683-39800

Frequency	Radio Device: BTS	GHz g Hold: 30/30	sexse:n/T r Freq: 2.308500000 Free Run Av n: 30 dB	Trig: I		2.3085000	er Freq	PASS
						Ref Offset 15 Ref 40.00 c		15 dB/
Center Free								25.0
2.308500000 GH								10.0
2.0000000000			A A					500
				-				20.0
								360
	A	A. A.O.	A NAME		and the			-50.0
	themander Thread for	when a single						
				-				-65.0
								-68.0
		-		-				-96.0
CF Step 4.399000000 GH	Stop 2.521 GHz			_		SHz	2.471 0	Start
Auto Mar	۵ Limit	Amplitude	Frequency	RBW	Stop Freg	Start Freq	Range	Spur
	-11.48 dB	-36.48 dBm	2.486990000 GHz	1.000 MHz	2.4905 GHz	2.4710 GHz	1	1
		20.09 dBm	2.491823000 GHz		2.4950 GHz	2.4905 GHz		2
Freq Offse	-16.98 dB				2.4960 GHz			
Freq Offse	-16.69 dB -16.69 dB -19.22 dB	-29.69 dBm	2 495874000 GHz 2 497125000 GHz		2.5210 GHz	2.4950 GHz 2.4960 GHz		3

Band41 5MHz+20MHz QPSK RB1-0 1-99 CH41373-41490



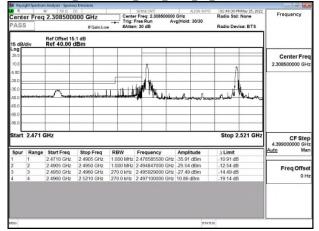
Band41_5MHz+20MHz_QPSK_RB25-0_100-0_CH39683-39800

Frequency	None	Radio Devis	ALIGN AUTO		r Freq: 2.30 Free Run 1: 30 dB	Trig: I		2.3085000	er Freq	Cente
								Ref Offset 15 Ref 40.00 c		15 dB/
Center Fre 2.308500000 GH			_		-					25.0 10.0
	Normale	-	-			_				-5.00
				ſ		ملمبليليمه				-20.0
	~					_				-50.0
										-65.0
				_	_					-96.0
CF Ste	521 GHz	Stop 2.		_	_	_		GHz	2.471 0	Start
4 399000000 GF					Frequenc	RBW	Stop Freg	Start Freq	Range	Spur
4.399000000 GH Auto Ma		A Limit	plitude	ey i						
4.399000000 GH		∆ Limit -4.232 dB	23 dBm			1.000 MHz	2.4905 GHz	2.4710 GHz	1	1
4.399000000 GH Auto Ma		-4.232 dB -11.45 dB	23 dBm 45 dBm	000 GHz 000 GHz	2 4897980 2 4936680	1.000 MHz 1.000 MHz	2.4905 GHz 2.4950 GHz	2.4905 GHz		1
4.399000000 GH		-4.232 dB	23 dBm 45 dBm	000 GHz 000 GHz	2 4897980 2 4936680	1.000 MHz	2.4905 GHz			1 2 3

Band41_5MHz+20MHz_QPSK_RB25-0_100-0_CH41373-41490

Cente	r Freq	2.308500		Trig:	sense:mt r Freq: 2.308500000 Free Run Av n: 30 dB	GHz vg Hold: 30/30	Radio Device: BTS	Frequency
15 dB/c		Ref Offset 1 Ref 40.00						
25.0 10.0	-			_				Center Free 2.308500000 GHa
5.00	100			_				
36.0			4		*****	an and a second		
50.0								
-80.0	_							
-96.0				-				
Start	2.665 0	GHz					Stop 2.74 GHz	CF Step 4.399000000 GH
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	۵ Limit	Auto Mar
1	1	2.6650 GHz	2.6900 GHz	510.0 kHz	2.668275000 GHz		-21.01 dB	
2	2	2.6900 GHz	2.6910 GHz		2.690347000 GHz		-21.86 dB	Freq Offset
3	3	2.6910 GHz 2.6950 GHz	2.6950 GHz 2.7150 GHz		2 692428000 GHz 2 698080000 GHz		-24 21 dB -24 29 dB	0 Ha
	4	2.0900 GH2	2.7150 GH2	1.000 MHz	2.09000000 GHZ	-3/ 29 UDIN	-24.29 00	

Band41 20MHz+5MHz QPSK RB1-0 1-0 CH39750-39867



Band41_20MHz+5MHz_QPSK_RB1-0_1-24_CH41440-41557

Frequency	Radio Device: BTS	GHz g Hold: 30/30	sense pri r Freq: 2.308500000 Free Run Av h: 30 dB	Trig: I	C DOO GHz IFGainLow	2.3085000	er Freq	PASS
						Ref Offset 15 Ref 40.00 c		15 dB
Center Fre 2.308500000 GH					0		1	25.0 10.0
		1			1		1.	-20.0
			man and the second s		month the	erson and	Nen	-50.0 -50.0
								-80.0
		_						-96.0
						Hz	2.665 0	Start
CF Ste 4.39900000 GH	Stop 2.74 GHz							
CF Ste 4,399000000 GH Auto Ma	-	Amplitude	Frequency	RBW	Stop Freg	Start Freg	Range	Spur
4,399000000 GH			Frequency 2.666025000 GHz		Stop Freq 2.6900 GHz	Start Freq 2.6650 GHz	Range 1	Spur 1
4,399000000 GH <u>Auto</u> Ma	∆ Limit -18.60 dB -22.38 dB	11.40 dBm -32.38 dBm	2 666025000 GHz 2 690659000 GHz	510.0 kHz 510.0 kHz	2.6900 GHz 2.6910 GHz	2.6650 GHz 2.6900 GHz	1 2	Spur 1 2
4,399000000 GH Auto Ma	Δ Limit -18.60 dB -22.38 dB -28.75 dB	11.40 dBm -32.38 dBm -38.75 dBm	2 666025000 GHz 2 690659000 GHz 2 691572000 GHz	510.0 kHz 510.0 kHz 1.000 MHz	2.6900 GHz 2.6910 GHz 2.6950 GHz	2.6650 GHz 2.6900 GHz 2.6910 GHz	1 2 3	Spur 1 2 3
4,399000000 GH <u>Auto</u> Ma	∆ Limit -18.60 dB -22.38 dB	11.40 dBm -32.38 dBm -38.75 dBm -35.59 dBm	2 666025000 GHz 2 690659000 GHz	510.0 kHz 510.0 kHz 1.000 MHz 1.000 MHz	2.6900 GHz 2.6910 GHz	2.6650 GHz 2.6900 GHz	1 2	Spur 1 2 3 4

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Band41_20MHz+5MHz_QPSK_RB100-0_25-0_CH39750-39867

Frequency	Std: None Device: BTS		GHz giHold: 30/30		Trig: F #Atten	IFGainLow	2.3085000		PASS
							Ref Offset 15. Ref 40.00 c		15 dB/
		-							25.0
Center Fre									
2.308500000 GH	- annulation								10.8
	And a start	- Aller	our maintain in ou	- Commenter of	_				-5.00
	4 1	1			1				-20.0
		-		4	- interior				-36.0
					_				-50.0
									65.0
									-80.0
									-96.0
CF Ste 4.399000000 GH	p 2.521 GHz	Stop 2					GHZ	2.471 0	Start
Auto Ma	it	A Limit	Amplitude	requency	RBW	Stop Freq	Start Freg	Range	Spur
	dB	-5.043 dB	-30.04 dBm	490363500 GHz	000 MHz	2.4905 GHz	2.4710 GHz	1	1
Freg Offse		-13.46 dB		494793000 GHz		2.4950 GHz	2.4905 GHz	2	2
0		-18.19 dB		495913000 GHz		2.4960 GHz	2.4950 GHz	3	3
	dB	-27.66 dB	2.338 dBm	517500000 GHz	70.0 kHz	2.5210 GHz	2.4960 GHz	4	4

Band41_20MHz+5MHz_QPSK_RB100-0_25-0_CH41440-41557

	37:50 PMNay 25, 2022		ALIGN AUTO		1	SE1		1	ic I	n Analyzer - Spuriou		B 8
Frequency	dio Std: None dio Device: BTS	Radio S			2.30850000	er Fr	Cente Trig: #Atte	Hz Gaintow	000 GH	2.3085000	er Freq	
]										Ref Offset 15 Ref 40.00 c	/div	15 dB/
Center Fre 2.308500000 GR						_						25.0 10.0
				_	_	_	-	n-			personal second	5.00
							and the second second	1				36.0
		******		-								50.0
												65.0 60.0
					_	_	_					96.0
CF Ste 4.39900000 GF	Stop 2.74 GHz	Sto								GHz	2.665 0	Start
Auto Ma	Limit	∆ Limi	itude	Ampl	ency	Fr	RBW	Freq	Stop	Start Freq	Range	Spur
	5.60 dB				25000 GH		510.0 kHz		2.6900	2.6650 GHz	1	1
Freq Offs	9.71 dB				29000 GH				2.6910	2.6900 GHz	2	2
01	3.39 dB						1.000 MHz		2.6950	2.6910 GHz	3	3
	3.15.dB						1.000 MHz		2,7150	2.6950 GHz	4	

Band41_10MHz+20MHz_QPSK_RB1-0_1-0_CH39705-39849

Frequency	11:28:12 AM May 25, 2022 Radio Std: None	GHz g Hold: 30/30		Trig: I	000 GHz	2.3085000	er Freq	
	Radio Device: BTS		n: 30 dB	#Atter	IFGainLow		5	PASS
						Ref Offset 15 Ref 40.00 c		15 dB/
Center Fre								25.0
2.308500000 GH								10.0
2.000000000		A	10					500
			-0	-				-20.0
		N.		-				
	1	AL.	1 hunter	the state of the s	. 1	-		-36.0
	to and have and we have	w Muslim	M Millime	Public and Spile	and the second second second	water and they		50.0
				_				65.0
								88.0
								.96.0
								-36.0
CF Ste 4.399000000 GH	Stop 2.526 GHz					GHZ	2.466 0	Start
			Frequency	RBW	Stop Freq	Start Freq	Range	Spur
Auto Ma	3 Limit	Amplitude						
<u>Auto</u> Ma	∆ Limit -6.869 dB		2.487045500 GHz	1.000 MHz	2.4905 GHz	2.4660 GHz	1	
		-31.87 dBm			2.4905 GHz 2.4950 GHz	2.4660 GHz 2.4905 GHz	1 2	2
Auto Ma Freq Offse	-6.869 dB	-31.87 dBm -31.61 dBm -26.98 dBm	2.487045500 GHz	1.000 MHz 300.0 kHz			1 2 3 4	2

Band41_10MHz+20MHz_QPSK_RB1-0_1-99_CH41346-41490

Frequency	Radio Device: BTS	4UTO 0			ree Run 1: 30 dB	Trig: I	iz iain:Low	000 GH	2.3085000	er Freq	Cente PASS
									Ref Offset 15 Ref 40.00 c		15 dB/
Center Free 2.308500000 GH							A				25.0 10.0 5.00
		~				-	يلغ المد		-	he had a	-20.0 -36.0 -50.0
		_	_	_	_						85.0 -80.0 -95.0
CF Ster 4.399000000 GH	Stop 2.745 GHz								Hz	2.66 G	Start
Auto Ma	۵ Limit	- I	Amplitu	cy	Freque	BW	req	Stop	Start Freq	Range	Spur
	-19.36 dB		10.64 dB	000 GHz	2.66132	0.0 kHz	GHz 6	2.6900	2.6600 GHz	1	1
Freq Offse	-19.95 dB				2.690004			2.6910	2.6900 GHz	2	2
OH	-25.02 dB				2.69156			2.6950	2.6910 GHz	3	3
	-18.66 dB		-31.66 d					2,7200	2.6950 GHz	4	

Band41_10MHz+20MHz_QPSK_RB50-0_100-0_CH39705-39849

Cente PASS	er Freq	2.308500		-+- Trig:	sekse:mt r Freq: 2.308 Free Run n: 30 dB		ALIGN AUTO	Radio Std: Non Radio Device: E	Frequency
15 dB/	div	Ref Offset 15 Ref 40.00 (
25.0 10.0					_				Center Free 2.308500000 GHa
-5.00					mutan	www.mi	12.00 Lateraport	and the second second second	
36.0			manne		4	- 1			
60.0 ×	harin altre								
-60.0				-	_	-	-		_
-96.0 Start	2.466 (GHz						Stop 2.526	
Spur	Range	Start Freq	Stop Freg	RBW	Frequency	Am	plitude	3 Limit	4.399000000 GH Auto Mar
1	2	2.4905 GHz	2.4950 GHz	1.000 MHz	2.49378950	GHz -23	85 dBm	-10.85 dB	
2	3	2.4950 GHz	2.4960 GHz		2.49534200			-13.59 dB	Freq Offset
3	4	2.4960 GHz	2.5260 GHz	300.0 kHz	2 50485000	0 GHz 4.50	9 dBm	-25.49 dB	0 Ha
55							STAT	us	

Band41_10MHz+20MHz_QPSK_RB50-0_100-0_CH41346-41490

R R		RF 50 12				SENSE: INT		ALIGN AUTO		May 25, 2022	Frequency
PASS		2.30850		Z	Trig:	r Freq: 2.30850 Free Run n: 30 dB	Avg	3Hz Hold: 30/30	Radio Std: I Radio Devic		requercy
15 dB/	div	Ref Offset 1 Ref 40.00									
25.0 10.0						_		_			Center Free 2.308500000 GH
5.00 20.0		Jaction	nonlight fried	reprov 1	<u> </u>			_			
36.0				-	-		-				
68.0										And a state of the	
60.0					_	_	-				
-96.0					-						
Start	2.66 G	Hz							Stop 2.	745 GHz	CF Ster 4.399000000 GH
Spur	Range	Start Freq	Stop F	req	RBW	Frequency		Amplitude	A Limit		Auto Ma
1	1	2.6600 GHz	2.6900	GHz	620.0 kHz	2 664590000	GHz i	7.372 dBm	-22.63 dB		
2	2	2.6900 GHz				2.690113000			-21.39 dB		Freq Offse
3	3	2.6910 GHz	2.6950	GHz	1.000 MHz	2.692044000	GHz -	32.94 dBm	-22.94 dB	_	0 H
											1
											1

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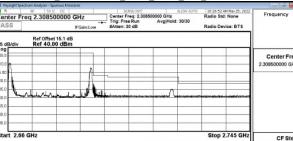
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Band41_15MHz+15MHz_QPSK_RB1-0_1-0_CH39725-39875

Frequency	09:44:41 AM May 25, 2022 Radio Std: None Radio Device: BTS	ALIGN AUTO 3Hz g Hold: 30/30	SENSE:INT Freq: 2.308500000 ree.Run Av : 30 dB	Trig: I		2.3085000	er Freq	Cente		
						Ref Offset 15. Ref 40.00 c		15 dB/		
Center Free		_						25.0		
2.308500000 GH								10.0		
		1						600		
		n n						20.0		
								36.0		
		. A	ALL MA	L. L.L.	- Annound	man		40.0		
	and the second state of the	and the second second						-55.0		
								-96.0		
CF Step 4,399000000 GH	art 2.466 GHz Stop 2.526 GHz									
Auto Mar	۵ Limit	Amplitude	Frequency	RBW	Stop Freq	Start Freg	Range	Spur		
	-10.28 dB	35 28 dBm	2.481508500 GHz	1.000 MHz	2.4905 GHz	2.4660 GHz	1	1		
Freq Offse	-12.64 dB		2.494662500 GHz		2.4950 GHz	2.4905 GHz		2		
	-10.36 dB -19.15 dB		2 495903000 GHz 2 496810000 GHz		2.4960 GHz	2.4950 GHz		3		
0 H					2.5260 GHz	2.4960 GHz	4			



Band41 15MHz+15MHz QPSK RB1-0 1-74 CH41365-41515

-80.0 -95.0 Start	2.66 G	Hz					Stop 2.745 GHz	CF Step 4.39900000 GHz
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	3 Limit	Auto Man
1	1	2.6600 GHz	2.6900 GHz	620.0 kHz	2.660810000 GHz	12.16 dBm	-17.84 dB	
2	2	2.6900 GHz	2.6910 GHz	620.0 kHz	2.690039000 GHz	-24.75 dBm	-14.75 dB	Freq Offset
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.692888000 GHz	-35.72 dBm	-25.72 dB	
4	4	2.6950 GHz	2.7200 GHz	1.000 MHz	2.717725000 GHz	-34.13 dBm	-21.13 dB	0 Hz
49G						1	TATUS	

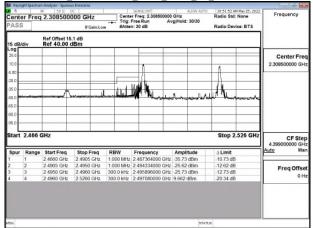
Band41_15MHz+15MHz_QPSK_RB75-0_75-0_CH39725-39875

Frequency		Radio Std: Radio Devi	30/30	DO GHz	SENSE:INIT ALIGN AUTO Center Freq: 2.308500000 GHz Trig: Free Run Avg Hold: 30/30 #Atten: 30 dB				2.308500	er Freq	Cente PASS
									Ref Offset 15 Ref 40.00 (/div	15 dB/
Center Fre 2.308500000 GH											25.0 10.0
	matering		nym pin		Munor	-	-				-5.00
			U								-20.0
	,							and a start of the			-50.0
-											-65.0
-							-				-80.0
											-96.0
Z CF Ste 4,399000000 GH	.526 GHz	Stop 2.							GHz	2.466 0	Start
Auto Ma		A Limit	tude	Ampli	equency	BW	Freq	Stop	Start Freq	Range	Spur
		-1.696 dB			87364000 0			2.490	2.4660 GHz	1	1
Freq Offse		-9.398 dB			93218000 0			2.495	2.4905 GHz	2	2
0 H		-14.10 dB			95811000 G			2.496	2.4950 GHz	3	3
0		-27.88 dB	iBm	z 2.120 (07760000 0	30.0 kHz	0 GHz	2.526	2.4960 GHz	4	4

Band41_15MHz+15MHz_QPSK_RB75-0_75-0_CH41365-41515

Frequency	10:27:30 AM May 25, 2022 Radio Std: None Radio Device: BTS	ALIGN AUTO ald: 30/30		Trig: I	IFGain:Low	308500000 (req	enter ASS
						ef Offset 15.1 dB ef 40.00 dBm		5 dB/d
Center Free 2.308500000 GH				_				.og 25.0
		_			- manual -	1		20.0
		-	mandamation	-		*	-	36.0
								50.0
								30
		_		_			_	6.0
CF Step 4.399000000 GH	Stop 2.745 GHz			_			6 GI	start 2
Auto Ma	∆ Limit	plitude	equency	RBW	top Freq	tart Freq Sto	nge	Spur
	-23.87 dB		71850000 GHz		6900 GHz			1
Freq Offse	-21.52 dB		90187000 GHz		6910 GHz			2 2
OH	-22.86 dB -22.10 dB		93452000 GHz 98450000 GHz		6950 GHz 7200 GHz			5 () L
	-22.1000	10 dbiri	50430000 GHZ	1000 1012	1200 GFE	0500 (5112 2.12		

Band41 20MHz+10MHz QPSK RB1-0 1-0 CH39750-39894



Band41_20MHz+10MHz_QPSK_RB1-0_1-49_CH41391-41535

Kitysig A		n Analyzer - Spurio			SENSE:INT	ALIGN AUTO	11:12:41 AM May 25, 2022	
	r Freq	2.308500		Trig:	r Freq: 2.308500000		Radio Std: None Radio Device: BTS	Frequency
15 dB/	diiv	Ref Offset 15 Ref 40.00 (
25.0 10.0			0					Center Free 2.308500000 GH:
-20.0	hum	mento	med					
65.0 60.0								
Start	2.66 G	Hz					Stop 2.745 GHz	CF Step 4.39900000 GH
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	A Limit	Auto Mar
1	1	2.6600 GHz	2.6900 GHz	620.0 kHz	2.661260000 GHz		-19.13 dB	
2	2	2.6900 GHz	2.6910 GHz		2.690204000 GHz		-18.80 dB	Freq Offse
3	3	2.6910 GHz	2.6950 GHz		2.692464000 GHz		-28 99 dB	0 H
4	4	2.6950 GHz	2.7200 GHz	1.000 MHz	2.716525000 GHz	-31.28 dBm	-18.28 dB	
4	4	2.6950 GHz	2.7200 GHz		2 692464000 GH2 2 716525000 GH2		-28 99 dB -16 28 dB	0

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Band41 20MHz+10MHz QPSK RB100-0 50-0 CH39750-39894

№ 31.0 CC SEARCE PMI ALLON AUTO 10:25:31 AVINO; Bog 2.308500000 GHz Center Free; 2.308500000 GHz Radio Skill Nom Radio Skill Nom FGainLCw Afficiant 30 dB AvgHold: 30:30 Radio Skill Nom							PASS
							15 dB/
							25.0
			_				10.0
an presenter		participation	_				5.00
11							20.0
14		-					36.0
· ·			_	-			50.0
			_				65.0
							80.0
			_				95.0
Stop 2.5					Hz	2.466 0	Start
3 Limit	Amplitude	Frequency	RBW	Stop Freq	Start Freq	Range	Spur
-14.33 dB				2.4950 GHz	2.4905 GHz	2	1
						3	2
-28.94 dB	1.062 dBm	2.510790000 GHz	300.0 kHz	2.5260 GHz	2.4960 GHz	4	3
	Stop 2.526	Stop 2.526 Amplitude 3 Limit 77.33 dBn -14.33 dB 28.00 dBm -15.00 dB	Stop 2.526 Frequency Amplitude Δ Limit 2.49502000 CH2 /27.33 dBm -1.43.3 dB -1.43.3 dB 2.49590000 CH2 /27.33 dBm -1.50.6 dB -1.50.6 dB	RBW Frequency Amplitude 3 Limit 1000 MHz 2.44302500 GHz 27.33 dBm -14.33 dB 000 MHz 2.44302500 GHz 27.83 dBm -16.35 dB	Bits Image: Constraint of the second s	Ref 40.00 dBm Amplitude Amplitude Amplitude Allmit 1	Automatical Stop Freq RBW Frequency Amplitude A Limit 2.4095 GHz 24995 GHz 1000 HHz 249302600 GHz 27.33 dBm -14.33 dB 2 2.4095 GHz 2.4995 GHz 1000 HHz 2.49500000 GHz 27.33 dBm -14.33 dB

Band41_20MHz+10MHz_QPSK_RB100-0_50-0_CH41391-41535

Frequency		Radio Std. Radio Dev	GHz g Hold: 30/30	req: 2.308500000 e Run Av 10 dB		Z ainLow	000 GH	2.3085000	ter Freq	AS
							.1 dB	Ref Offset 15 Ref 40.00 c	B/div	15 dB
Center Fre										.0g 25.0
	-		_		·		Amanuni	***	procession	.00
		-				liber	1			20.0 36.0
										50.0
		+								5.0 9.0
										96.0 -
CF Ste	art 2.66 GHz Stop 2.745 GHz									start
4.399000000 GH Auto Ma		∆ Limit	Amplitude	requency	W	req R	Stop F	Start Freq	r Range	Spur
Auto Ma		-25 20 dB	4 803 dBm	570380000 GHz	0 kHz	GHz 62	2.6900	2.6600 GHz	1	
<u>Auto</u> Ma	B						2.6910	2 6900 GHz	2	2
		-21.28 dB		590054000 GHz	0 kHz	GHz 62	2.0910			
Auto Ma FreqOffsi 0 ⊢	В		-31.28 dBm	590054000 GHz 592020000 GHz			2.6950	2.6910 GHz	3	3

Band41_15MHz+20MHz_QPSK_RB1-0_1-0_CH39728-39899

08:54:13 AM May 25, 2022	ALIGN AUTO	SENSE: INT			Analyzer - Spuriou F 50 0 0		and the second
Radio Std: None	GHz	Freq: 2.308500000	Cente				Cente
Radio Device: BTS	g Hold: 30/30	Free Run Av at: 30 dB			2.000000		PASS
						ldiv	15 dBA
							25.0
							10.0
	4	0					
			_				-5.00
							-20.0
	10.	AND NO.		-			-36.0
- Andrewskin	Hurson The	March Ander	- Aller due	man has	any strange internet		50.0
							65.0
							88.0
							-96.0
Stop 2.531 GHz			_		GHz	2.461 0	Start
ALimit	Amplitude	Frequency	RBW	Stop Freq	Start Freq	Range	Spur
					2 4610 GHz	-	4
-10.74 dB		2.482269500 GHz	1.000 MHz	2.4905 GHz	2.4010 GHZ	1	
	-35.74 dBm	2.482269500 GHz 2.494401500 GHz		2.4905 GHz 2.4950 GHz	2.4610 GHz	2	2
-10.74 dB	-35.74 dBm -26.97 dBm		1.000 MHz			1 2 3 4	2
	Radio Device: BTS	Radio Device: BTS	Pre Run ArgiHold: 3030 Radio Device: BTS	Trig: Free Run Arten: 30 dB Radio Device: BTS Radio Device: BTS Stop 2.531 GHz	TrainLow Trip Free Run Avg/Hold: 3030 FrainLow Rater: 30 dB Radio Device: BTS 1 dB IBM Stop 2,531 GHz	Ref Offset 15.1 dB Ref 40.00 dBm	ArgHold: 3030 ITGenLow ArgHold: 3030 Radio Device: BTS Ref 40.00 dBm ArgHold: 3030 Ref 40.00 dBm ArgHold: 3030 ArgHold:

Band41 15MHz+20MHz QPSK RB1-0 1-99 CH41319-41490

09:21:06 AM May 25, 2022	ia le	ALIGN AUTO	SENSE:INT			F 30 2 C		Keysi R
Radio Std: None Radio Device: BTS	R	GHz	Trig:	00 GHz		er Freq	PASS	
								15 dB/
					h			25.0 10.0
	-				mul	-	ter.	20.0 36.0
								65.0 60.0
Stop 2.75 GHz						Hz	2.655 0	L
		Amplitude	Frequency	RBW	Stop Freq	Start Freg	Range	Spur
3 Limit								
∆ Limit -19.07 dB			2.656400000 GHz	750.0 kHz	2.6900 GHz	2.6550 GHz	1	1
	-1	10.93 dBm			2.6900 GHz 2.6910 GHz	2.6550 GHz 2.6900 GHz		2
-19.07 dB	-1	10.93 dBm -23.88 dBm	2.656400000 GHz	750.0 kHz			2	1 2 3
	adio Device: BTS	Radio Device: BTS	Radio Device: BTS	Pre Run ArgiMold: 3030 Radio Device: BTS	Trig: Free Run AvgiHeld: 3030 Radio Device: DTS	TrainLow Trig: Free Run Avg/Hold: 3030 Radio Device: BTS 1 dB 18m 10m 10m 10m 10m 10m 10m 10m 10m 10m 10	Ref Offset 15.1 dB Ref 40.00 dBm	Redio Device: BTS Red Offset 15.1 dB Ref 00fset 15.1 dB Ref 0.00 dBm

Band41_15MHz+20MHz_QPSK_RB75-0_100-0_CH39728-39899

R			C CHa	Cente	SENSE:INT r Freq: 2.30850	ALIGN AUTO	08:54:51 AM May 25, 2023 Radio Std: None	Frequency
PASS		2.3085000	IFGainLo	Trig:	Free Run n: 30 dB	Avg Hold: 30/30	Radio Device: BTS	
15 dB/	div	Ref Offset 15 Ref 40.00 c						
25.0								Center Free
10.0								2.308500000 GH
5.00					yerrenan	aminna		2.308500000 GH
				_	-1	- Perante	mane man man with a start and had	
-20.0	_			-	h. d.	W N		
36.0				-		4		
-50.0		and the second second	and the second s	-				1
65.0				_				
-0.03								
-95.0	-							
Start	2.461 0	GHz					Stop 2.531 GHz	CF Step 4.399000000 GH:
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	à Limit	Auto Mar
1	2	2.4905 GHz	2.4950 GHz	1.000 MHz	2.493956000	GHz -26.43 dBm	-13.43 dB	
2	3	2.4950 GHz	2.4960 GHz			GHz -27.63 dBm	-14.63 dB	Freq Offse
3	4	2.4960 GHz	2.5310 GHz	360.0 kHz	2 507620000	GHz 3.415 dBm	-26.58 dB	0 Ha
								01.
99						STAT	22	

Band41_15MHz+20MHz_QPSK_RB75-0_100-0_CH41319-41490

Cente PASS	er Freq	2.30850	0000 G	Hz Gaintow	-+- Trig:	Center Freq: 2.308500000 GHz Trig: Free Run Avg Hold: 30/30 #Atten: 30 dB					M May 25, 2022 None ice: BTS	Frequency
15 dBA	div	Ref Offset Ref 40.00										
25.0 10.0	-	-	animinina		1	_		_				Center Free 2.308500000 GH
-5.00		Y	-	- without	<u> </u>	_		-	1			
-36.0		1			Martin	-	-					
-50.0										1.	5-10 Start Start Start	
-88.0												
-96.0					_	_						
Start	2.655 (SHz		-						Stop	2.75 GHz	CF Step 4.39900000 GH
Spur	Range	Start Freq	Stop	Freq	RBW	Fr	equency	Amplitu	de	∆ Limit		Auto Mar
1	1	2.6550 GHz			750.0 kHz		67075000 GHz			-22.44 dB		
3	2 3	2.6900 GHz 2.6910 GHz			750.0 kHz 1.000 MHz		90770000 GHz 91344000 GHz			-20 58 dB -22 39 dB		Freq Offsel 0 Ha

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Band41 20MHz+15MHz QPSK RB1-0 1-0 CH39750-39921

Frequency	Radio Std: None Radio Device: BTS	GHz g Hold: 30/30	sense:tht r Freq: 2.308500000 free Run Av	-+- Trig: I		2.3085000		Cente		
					1 dB	Ref Offset 15. Ref 40.00 c		15 dB/		
						1101 40.00 0	UI Y	Log		
Center Fre								25.0		
2.308500000 GH	4	1	6	_				10.8		
		1	111	-				-5.00		
	1							-20.0		
	t		Alw. A	1001	~			-36.0		
	Reinhamena	munt	1 Hilloway	the particular	Anna and and and and and and and and and			50.0		
								65.0		
								-80.0		
								-96.0		
								-96.0		
CF Ste 4.399000000 GH	tart 2.461 GHz Stop 2.531 GHz									
Auto Ma	3 Limit	Amplitude	Frequency	RBW	Stop Freq	Start Freq	Range	Spur		
	-11.17 dB		2.477756000 GHz		2.4905 GHz	2.4610 GHz	1	1		
	-11.69 dB		2.494982000 GHz		2.4950 GHz	2.4905 GHz		2		
Freq Offse				360.0 kHz	2.4960 GHz	2.4950 GHz	3	3		
Freq Offse	-13.37 dB -19.59 dB	-26.37 dBm	2.495880000 GHz 2.497120000 GHz		2.5310 GHz	2 4960 GHz	4			

Band41_20MHz+15MHz_QPSK_RB1-99_1-74_CH41341-41512

Francisco	06:29:43 PMMay 24, 2022	ALIGN AUTO	SENSE:INT		XC .			R R
Frequency	Radio Std: None Radio Device: BTS	GHz g Hold: 30/30	r Freq: 2.308500000 Free Run Av n: 30 dB	Trig:	IFGainLow	2.3085000		PASS
						Ref Offset 15 Ref 40.00 c	3/div	15 dB/
Center Fre 2.308500000 GH						n	_	25.0 10.0
							. 11	20.0
		****		Welliam	~~~	win		50.0
				_				80.0 95.0
CF Ste 4.39900000 GH	Stop 2.75 GHz					GHz	t 2.655 C	Start
Auto Ma	A Limit	Amplitude	Frequency	RBW	Stop Freq	Start Freq	Range	Spur
		AD OC Alter	2 665045000 GHz	750.0 kHz	2.6900 GHz	2.6550 GHz	1	1
	-19.04 dB	10.96 dbm	2.003043000 GHz					
FreqOffs	-19.17 dB	-29.17 dBm	2.690168000 GHz		2.6910 GHz	2.6900 GHz	2	4
Freq Offse		-29.17 dBm -34.24 dBm		1.000 MHz	2.6910 GHz 2.6950 GHz 2.7250 GHz	2.6900 GHz 2.6910 GHz 2.6950 GHz	3	3

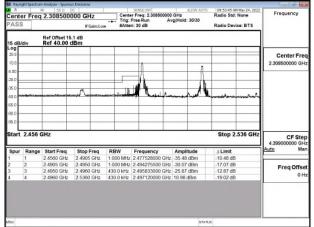
Band41_20MHz+15MHz_QPSK_RB100-0_75-0_CH39750-39921

Keys		n Analyzer - Spurio RF 50 Q 1			SENSE: INT	ALIGN AU	10 03-05-53 81	HMay 24, 2022	
	er Freq	2.308500	000 GHz	Trig:	r Freq: 2.30850000 Free Run A		Radio Std.	None	Frequency
PAS	5		IFGainLo	w #Atte	n: 30 dB		Radio Dev	ice: BTS	
15 dB	/div	Ref Offset 15 Ref 40.00 (
25.0							_		Center Free
10.0									2.308500000 GH
5.00					-		-		2.000000000
				_	_		-	and the second second	
-20.0				-			1/1		
-36.0				Contraction of the local division of the loc			4		
60.0			And do to the local data	_			_		
65.0									
-00.0									
-96.0									
Start	2.461 (GHz					Stop 2	.531 GHz	CF Step 4.399000000 GH
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	3 Limit		Auto Ma
1	2	2.4905 GHz	2.4950 GHz	1.000 MHz	2.493681500 GHz	-28.51 dBm	-15.51 dB	· · · · · ·	
2	3	2.4950 GHz	2.4960 GHz	360.0 kHz	2.495018000 GHz	-29.13 dBm	-16.13 dB	1	Freq Offse
3	4	2.4960 GHz	2.5310 GHz	360.0 kHz	2.497400000 GHz	2.330 dBm	-27.67 dB	L	0 H
									0

Band41 20MHz+15MHz QPSK RB100-0 75-0 CH41341-41512

Device: BTS	Radio Devic	Freq 2.308500000 GHz 98/85/071 41/37/41/70 106/374/28/Mmy 24,2022 Freq 2.308500000 GHz 06/374/28/Mmy 24,2022 Radio Stell None Trig: Free Run Avg Hold: 30/30 Radio Device: BTS Freq 2.308500000 GHz 06/374/28/Mmy 24,2022 Radio Device: BTS							
			n: 30 dB	#Atte	IFGaintLow		5	PAS	
						Ref Offset 1 Ref 40.00		15 dB	
Center Free				1				25.0	
2.308500000 GH:								10.0	
2.308500000 GH						-	-	5.00	
		_	_	<u> </u>					
								-20.0	
		-		-				-36.0	
an and a second s								-50.0	
				_				-65.0	
				_				-68.0	
								-96.0	
op 2.75 GHz CF Step 4.39900000 GH:	Stop 2					Hz	2.655 0	Star	
iit <u>Auto</u> Mar	A Limit	Amplitude	Frequency	RBW	Stop Freq	Start Freq	Range	Spur	
	-24.15 dB		2.667460000 GHz	750.0 kHz	2.6900 GHz	2.6550 GHz	1	1	
	-23.47 dB		2.690308000 GHz		2.6910 GHz	2.6900 GHz		2	
0 H	-24.76 dB	-34.76 dBm	2.692496000 GHz	1.000 MHz	2.6950 GHz	2.6910 GHz	3	3	

Band41 20MHz+20MHz QPSK RB1-0 1-0 CH39750-39948



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

Radio Devide. D I a	Radio De	RF 19 00 SEMSE [D/T] ALLOW AUTO 01: 01: 01: 01: 01: 01: 01: 01: 01: 01:						PASS
						Ref Offset 15 Ref 40.00 c	B/div	15 dB
2.309500000 GH				N			<u>م</u>	25.0 10.0
			100 \$15 cm == 10 m == 10 m	1	لسليت	uhrh	L.	-20.0
				_				85.0 88.0 95.0
Stop 2.755 GHz CF Step 4.39900000 GH	Stop 2					łz	t 2.65 G	Start
Auto Mar	∆ Limit	Amplitude	Frequency	RBW	Stop Freq	Start Freg	r Range	Spur
-18 48 dB	-18 48 dt		2.651160000 GHz	820.0 kHz	2.6900 GHz	2.6500 GHz	1	1
-13.89 dB Freg Offse			2.690050000 GHz		2.6910 GHz	2.6900 GHz	2	2
-21.24 dB			2 691080000 GHz		2.6950 GHz	2.6910 GHz	3	3
-19.24 dB	-19.24 dt	32.24 dBm	2.726395000 GHz	1.000 MHz	2.7300 GHz	2.6950 GHz	4	4

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Band41 20MHz+20MHz QPSK RB100-0 100-0 CH39750-39948

	Trig: Free Run Avg Hold: 30/30					enter Freq 2.308500000 GHz ASS IFGainLow				Freq 2.308500000 GHz Center Freq: 2.308500000 GHz Radio Std: No Trig: Free Run Avg(Hold: 30/30						
	Radio Device. B13			, souther	1 dB	Ref Offset 15 Ref 40.00 (_	15 dB/								
						Rei 40.00 i	uiv	Log								
Center Free								25.0								
2.308500000 GHa								10.8								
-	Marchen and Marchen	and providence and		_				6.00								
1								20.0								
		2						36.0								
1							-	50.0								
								55.0								
								-68.0								
				-				-96.0								
Hz CF Step	Stop 2.536 GHz					GHZ	2.456 0	Start								
Auto Mar	A Limit	Amplitude	requency	RBW	Stop Freq	Start Freg	Range	Spur								
	-12.93 dB	-25.93 dBm	494586000 GHz	1.000 MHz	2.4950 GHz	2.4905 GHz	2	1								
Freq Offset	-15.36 dB		495910000 GHz		2.4960 GHz	2.4950 GHz	3	2								
0 Hz	-27.94 dB	2.064 dBm	503840000 GHz	430.0 kHz	2.5360 GHz	2.4960 GHz	4	3								

Band41_20MHz+20MHz_QPSK_RB100-0_100-0_CH41292-41490

Cento PASS	er Freq		00000 GH		Trig:	sense:ovr Freq: 2.3085 Free Run n: 30 dB	Avg Hol	ALIGN AUTO	Radio Std. Radio Devi		Frequency
15 dB/	div	Ref Offset Ref 40.0									
25.0 10.0					1						Center Freq 2.308500000 GHz
5.00 20.0	********			****	4-	_	-				
36.0					-	-		a management	-		
5.0											
90.0 96.0						_					
start	2.65 G	Hz							Stop 2	755 GHz	CF Step 4.39900000 GH
Spur	Range	Start Fre	g Stop	Freg	RBW	Frequency	Amp	litude	3 Limit		Auto Mar
	1	2.6500 GH			820.0 kHz	2.661640000			-23.99 dB		
2	2	2.6900 GF 2.6910 GF				2 690023000 2 692104000			-19.90 dB -23.50 dB	_	Freq Offset
95								STAT	5		

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9.5 Spurious Emisson Measurement Result:

Refer to next pages.

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Band41_5MHz+20MHz_QPSK_RB1-0_1-0_CH39683-39800

Kieysight Spe R	ectrum Analyzer - Sie RF 30 S		SENSEINT	ALTON AUTO	02:13:35 PMMay 25, 2022	
N	8- 1305	PNO: Fast	Trig: Free Run	#Avg Type: RMS Avg[Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE N WWWW	Frequency
0 dB/div	Ref Offset 16 Ref 25.10		#Atten: 20 dB	Mkr2	29.641 259 GHz -36.666 dBm	Auto Tur
og 15.1 5.10	V1					Center Fr 15,015000000 G
.90 4.9 4.9					-25 (0 dBn	Start Fr 30.000000 M
49 49 49 49	, determine					Stop Fr 30.00000000 G
enter 15 Res BW	.02 GHz 1.0 MHz		W 3.0 MHz		Span 29.97 GHz 0.00 ms (30001 pts)	CF St 2.997000000 C Auto M
2 N 3 4 5	f f	2,497 530 GHz 29,641 259 GHz	18.757 dBm -36.666 dBm	UNCTION FUNCTION MDTH	FUNCTION WALLE	Freq Off
6 7 8 9						
11			17			

i Keysight Spe R	ctnam Analyzer - Sive RF 50 S	PND: Fast	SENSE:IN	#Avp	ALIGN AUTO Type: RMS Hold: 100/100	02:22:51 PMINay 2 TRACE 1 2 TVPE M W	3456	Frequency
0 dB/div	Ref Offset 15. Ref 25.10 d		#Atten: 20 dB		Mkr2	2.436 591 0 -28.917 d	GHz	Auto Tune
og 16.1 5.10								Center Fre 15,015000000 GH
4.9	2					25	. (0 dBn	Start Fre 30.000000 MH
4.9 4.9 4.9 4.9	Levenere					*********	~~~	Stop Fre 30.00000000 GH
enter 15 Res BW		#VI	BW 3.0 MHz		Sweep 50	Span 29.97).00 ms (30001	pts)	CF Ste 2.997000000 GH
CONSTRUCT N 1 1 N 1 2 N 1 3 - - 4 - - 5 - - 6 - - 7 - - 9 - - 10 - -	6 844 f f	2.581 446 GHz 2.436 591 GHz	18.439 dBm -28.917 dBm	FUNCTION	PARCHONIMIDTH	FUNCTION WAL		Auto Ma FreqOffsc 0 H
2			1		statu		+	

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

	energia de la companya de la company			-		Noter - Swept SA			
Frequency	04:38:47 PMNay 25, 2022 TR40E 1 2 3 4 5 6 TVPE M WWWWW	Avg Type: RMS vgiHold: 100/100	m	SENSE:	PNO: Fast	58 g DC	RF.		R
Auto Tune	2.434 593 GHz -29.891 dBm	Mkr2		#Atten: 20 dB	IFGain:Low	ffset 15.1 dB 25.10 dBm		B/div	10 d
Center Fre 15,015000000 GH			_						15.1 5.10
Start Fre 30.000000 MH	-25 (0 486						↑ ²		14.9
Stop Fre 30.00000000 GH						*******	H	-	449 549 649
CF Ste 2.997000000 GF Auto Ma	Span 29.97 GHz 00 ms (30001 pts)		_	W 3.0 MHz		łz	5.02 GH 1.0 MH	s Bl	₽Re
Freq Offse 0 H	FUNCTION VALUE	N FUNCTION MIDTH	FUNC	18.225 dBm -29.891 dBm	666 361 GHz 434 593 GHz		ric SCL f f		1
	,.			π					7 9 10 11
		STATUS							195

Band41_20MHz+5MHz_QPSK_RB1-0_1-0_CH39750-39867

Frequency	MNay 25, 2022 OE 1 2 3 4 5 6 PE M WWWWW	TR4	ALIGN AUTO ype: RMS	#Avp	SENSE: IN			2 DC	30	RF	_	R
-	ETPNNNNN	D	id: 100/100	Avgi	g: Free Run tten: 20 dB		PNO: Fast IFGain:Low					
Auto Tun	401 GHz 27 dBm		Mkr2 2						Offset 1 25.10		B/div	0 dE
Center Fre 15,015000000 GH										×1		og 15.1 5,10
Start Fre 30.000000 Mi-	-25.00 dBn	2 ²				-				-		1.90 14.9
Stop Fre 30.00000000 GH		, i بند ت رورین				-			×	۲	-	49 49 49 49
CF Ste 2.997000000 GH Auto Ma	29.97 GHz 10001 pts)	.00 ms (3	Sweep 50		MHz	BW :	#VI			5.02 C	s BV	Re
FreqOffs	ON WALLE	10/0011	UNCTION MOTH	RUNCTION	362 dBm 227 dBm		530 GHz 101 GHz	2.497 5 25.598 4			NN	1
01												5 6 7 8 9
					7	_						9

Band41_20MHz+5MHz_QPSK_RB1-0_1-0_CH40595-40712

Reysight Sp	ectrium Analyzer - 3 RF 30	Swept SA	SENSE: INT		ALIGN AUTO	01:50:28 PMMay 25, 202	
N	N2- 31	PNO: Fest	Trig: Free Run	MAVE	Type: RMS Hold: 100/100	TR4CE 1 2 3 4 5 TVPE N WARM	6 Frequency
	Ref Offset	IFGain:Low	#Atten: 20 dB		Mkr2	29.241 758 GH: -35.988 dBn	Auto Tun
dB/div	Ref 25.10	0 dBm				-30.966 UBI	
10	1				_		Center Fre 15,015000000 GH
.9	+				_		Start Fre
1.9	1					-25 (0 07	30.000000 MH
	-						Stop Fre 30.00000000 GH
.9							30,0000000 GP
	0.02 GHz 1.0 MHz	#VE	W 3.0 MHz		Sweep 50	Span 29.97 GH .00 ms (30001 pts	2.997000000 GH
NCCE T		х	Ÿ	FUNCTION	FUNCTION MIDTH	FUNCTION VALUE	Auto Ma
N	f	2.581 446 GHz 29.241 758 GHz	19.441 dBm -35.988 dBm				FreqOffse
							0+
1							
2					STATU		

Band41_20MHz+5MHz_QPSK_RB1-0_1-0_CH41440-41557

	f 25,10 dBm		Trig: Free Run #Atten: 20 dB	KAvg Ty Avg Hol	3: 100/100	2.435 592 -29.581	CGHz	Auto Tune Auto Tune Center Free 15,01500000 GH: Start Free 30,00000 MH:
1 dB/div Ret 99 ¥1 ¥1 10 90 49 49 49 49 49		3			Mkr2	-29.581	dBm	Center Free 15.015000000 GH Start Free
5.1 ¥ 1 10 90 4.9 ¥2 4.9							-25.00.4940	15,015000000 GH Start Free
19 19 19							-25.00 dBm	
								30.000000 MP
9	بر برمنر است. اب				*****	ر ر ه هدامینی	~~~	Stop Fre 30,00000000 GH
enter 15.02 G tes BW 1.0 F	MHz	#VBI	W 3.0 MHz			Span 29.9 00 ms (300	01 pts)	CF Ste 2.997000000 GH Auto Ma
	2.6	566 361 GHz 435 592 GHz	19.407 dBm -29.581 dBm	FUNCTION	WCTION WIDTH	FUNCTION V	ALUE	Freq Offse
4 5 7 8 9							-	01
0							-	

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Band41_10MHz+20MHz_QPSK_RB1-0_1-0_CH39705-39849

Keysight S	Rectrum Analyzes	r - Swept SA 30 Q DC		NSEINT			11:24:09 AM	a. 25 2022	
N.	N°.		Fast Trig: Fre		MAvg Typ AvgiHold	e: RMS	TRACE TYPE	123456	Frequency
		PNO: IFGair			Avgintoid		DET	PNNNNN	Auto Tur
0 dB/div	Ref Offse Ref 25.	t 15.1 dB 10 dBm				Mkr2 2	8.819 98 -36.99		Auto Tu
og 15.1	9						_		Center Fr
5.10		_		-	-				15,015000000 G
.90				-	-				
14.9				1				-25.00 dBm	Start Fr
34.9								¢ ²	30.000000 M
49		-	-		-			~~~~~	
4.9	-			-				_	Stop Fr 30.000000000 0
4.9				-	-				
	5.02 GHz		#VBW 3.0 MH	,	5	weep 50	Span 29. .00 ms (30		CF St 2.997000000 0
		×	VIDIC COMIN	-	NCTION I FUN				Auto N
1 N 2 N	11	2.497 530 G 28.819 981 G	Hz 16.967 d Hz -36.992 d					_	
3 4								_	Freq Offs
5	_			-				-	
7 8								_	
9				_				_	
1				-		_		- + -	
-						STATIS			

	1 AM May 25, 2022	111-15-01-5	ALIGN AUTO		SENSE:0			RF 3	sight Spé	Key R
Frequency	RACE 1 2 3 4 5 6 TVPE NWWWW DET P NNNN	TR40	Type: RMS lold:>100/100	#Av	Trig: Free Run	NO: Fast C		Nº 13		i.
Auto Tun	591 GHz 278 dBm	2.436 5	Mkr2		#Atten: 20 dB	Gain1.ow	5.1 dB	Ref Offse Ref 25.1	3/div	0 di
Center Fre 15,015000000 GH			_					M		.og 15.1 5.10 4.90
Start Fre 30.000000 Mi-	-25.00 dBm							2		14.9 24.9
			the second second	1.1		-				34.9
								سجعار	-	54.9
30,00000000 Gi CF Ste 2,997000000 Gi	29.97 GHz (30001 pts)		Sweep 50		3.0 MHz	#VBI	<u>مەمەرىتى ئە</u>	.02 GHz 1.0 MHz		54.9 64.9
30.00000000 GF 2.997000000 GF Auto Ma		.00 ms (3	Sweep 50	FUNCTION	3.0 MHz 19.055 dBm -28 278 dBm	48 GHz	2,579 4 2,436 5	1.0 MHz		Re 1
Stop Fre 30.0000000 GH 2.99700000 GH <u>Auto</u> Me Freq Offs. 0 H	(30001 pts)	.00 ms (3		PUNCTION	19.055 dBm	48 GHz	2,579 4	1.0 MHz	S BW	54.9 64.9 Re Re 1 2 3 4 5
30.00000000 GF 2.997000000 GF Auto Ma	(30001 pts)	.00 ms (3		FUNCTION	19.055 dBm	48 GHz	2,579 4	1.0 MHz	S BW	54.9 64.9 Cen Re 1 2 3 4

Band41_10MHz+20MHz_QPSK_RB1-0_1-0_CH41346-41490

	ectrum Analyzer - Swe				and the second second second second	
R	RF 38.2	PNO: Fast *	SENSE:INT	#Avg Type: RMS Avg[Hold: 100/100	DH:50:33 PMNay 25, 2022 TR4CE 1 2 3 4 5 6 TVPE MWWWW DET P NNNN N	Frequency
10 dB/div	Ref Offset 15. Ref 25.10 d	IFGain1.ow	#Atten: 20 dB	Mkr2	2.435 592 GHz -29.147 dBm	Auto Tun
-og 15.1 5.10						Center Fre 15,015000000 GH
24,9	1 ²				-25.00 dBm	Start Fre 30.000000 MH
349 449 549 549						Stop Fre 30.00000000 GF
Res BW	5.02 GHz 1.0 MHz	#VB	W 3.0 MHz		Span 29.97 GHz .00 ms (30001 pts)	CF Ste 2.997000000 Gi Auto M
1 N 2 N 3 4 5 6 7	1 1	2.661 366 GHz 2.435 592 GHz	16.600 dBm -29.147 dBm	UNCTION FUNCTION WIDTH	FUNCTION WALVE	Freq Offs
8 9 10 11			7	STATU		

Band41_15MHz+15MHz_QPSK_RB1-0_1-0_CH39725-39875

R	RF 30 0 DC		SENSE:D	#Avg	ALIGN AUTO Type: RMS	09:40:33 AM May 25 TRACE 1 2 3	456	Frequency
		PNO: Fast * IFGain:Low	#Atten: 20 dB	AvgiH	old: 100/100	DET P N N	INININ	2.312.1
0 dB/div R	ef Offset 15.1 dB ef 25.10 dBm				Mkr2 2	9.257 243 G -34.933 d		Auto Tun
og 15.1 5.10	1	_					1	Center Fre
4.90		_				-251	2	Start Free 30.000000 MH
34.9 44.9	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						***	Stop Fre
							3	0.000000000 GH
64.9 Center 15.02		#VB	W 3.0 MHz		Sweep 50	Span 29.97 .00 ms (30001	GHz pts)	CF Ste 2.99700000 GH
Center 15.02 Res BW 1.0	MHz		Y	FUNCTION	Sweep 50	.00 ms (30001	GHz pts)	CF Ste 2.99700000 GH
64.9 Center 15.02 Res BW 1.0 1 N 1 1 2 N 1 1 3 4 5	MHz	#VB 7 530 GHz 7 243 GHz	W 3.0 MHz 19.822 dBm -34.933 dBm	FUNCTION		.00 ms (30001	GHz pts)	CF Ste 2.997000000 GH to Ma Freq Offse
64.9 Center 15.02 Res BW 1.0 10000000000000000000000000000000000	MHz	7 530 GHz	19.822 dBm	PUNCTION		.00 ms (30001	GHz pts)	0.00000000 GH CF Ste 2.99700000 GH <u>to</u> Ma Freq Offse 0 H

Band41_15MHz+15MHz_QPSK_RB1-0_1-0_CH40545-40695

	RF 50	2 00	SENSE: INT		ALLON AUTO	09:54:46 AM May 2	5, 2022	Procession and a second s
		PNO: Fast IFGaint.co	Trig: Free Run	Avg	Type: RMS Hold: 100/100	TRACE 1 2 TVPE MW DET P N		Frequency
) dB/div	Ref Offset 1 Ref 25.10	5.1 dB	, writen: 20 ub		Mkr2	2.435 592 -29.031 c		Auto Tune
5.1 .10 .90								Center Free 15,015000000 GH
4.9	2					-21	5.00 dBm	Start Free 30.000000 MH
		*****					~~~	Stop Fre 30.000000000 GH
Res BW	5.02 GHz 1.0 MHz	#V	BW 3.0 MHz			Span 29.97 .00 ms (30001	l pts)	CF Ste 2,997000000 GH Auto Ma
1 N 2 N		2.579 448 GHz 2.435 592 GHz	18.162 dBm -29.031 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION WAL		
3							-	Freq Offse 0 H
6								
4 5 7 8 9 0							=	

Band41_15MHz+15MHz_QPSK_RB1-0_1-0_CH41365-41515

Bit Page First Trig: Free Run (Frequency) Avgrided: 100100 Trig: Start S Trig: Free Run (Frequency) Trig: Free Run (Frequency) Mkr2 2:435 592 GHz Auto T Ref Offset 15.1 dB Brain Mkr2 2:435 592 GHz Auto T Start	Reysight Spe	ectrum Analyzer -	Swept SA	SENSE: INT		10:	22:16 AM May 25, 2022	
IF Galandow PAtter: 20 dB Opper NAME Auto T Biddiv Ref 2,315 dB Mkr2 2,435 592 GHz Center 1 1 2 300000 Start H Store 2 300000 Start H 3000000 Start H 2 300000 Start H 30000000 Start H 2 300000 Start H 30000000 Start H 2 3000000 Start H 300000000 Start H 2 3000000 Start H 30000000 Start H 2 30000000 Start H 300000000 Start H 3 30000000 Start H 300000000 Start H 3 30000000 Start H 300000000 Start H 3 300000000 Start H 300000000 Start H 3 1 2 435 890 GHz 15 286 dB Start H 2 897000000 N 1 2 435 890 GHz 2 880 GB 15 7 8 GB 16 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7		14 [J.		Trig: Free Run	#Avg Type:	RMS	TRACE 1 2 3 4 5 6	Frequency
Content Content 2 35.0.95 2 35.0.95 30.00000 Start 1 30.000000 Start 1 30.000000 Start 1 30.00000000 Start 1 30.00000000 Start 1 30.00000000 Start 1 30.000000000 Start 1 Start 1 Start 1 30.0000000000 Start 1 Start 1 Start 1 30.00000000000000000000000000000000000			IFGain1.ov			Mkr2 2.4	35 592 GHz	Auto Tun
2 30.0000 2 30.0000 2 30.0000 2 30.0000 2 30.0000 2 30.0000 30.00000 50.0000 4 50.0000 4 50.0000 5 50.0000 5 50.0000 6 50.00000 6 50.00000 1 2.261.386 CHz 5 7 2.453.899 CHz 2.453.899 CHz 2.453.899 CHz 2.453.899 CHz 2.453.899 CHz 2.453.890 CHz 2.453.899 CHz 2.453.890 CHz 2.453.899 CHz 2.453.890 CHz 2.453.890 CHz 2.453.890 CHz 2.454.990 CHz <th>dB/div</th> <th>Ref 25.1</th> <th>0 dBm</th> <th></th> <th></th> <th>-2</th> <th>28.206 dBm</th> <th></th>	dB/div	Ref 25.1	0 dBm			-2	28.206 dBm	
xer 15.02 GHz span 29.97 GHz	6.1 i.10						_	Center Fre 15,015000000 GH
Span 29.97 GHz Span 29.97 GHz CF 5 Span 29.97 GHz 28700000 N 1 2.851 386 GHz 152.26 GHz 152.26 GHz 28700000 N 1 2.455 897 GHz 27800000 152.26 GHz 157.26 GHz 28700000 N 1 2.455 897 GHz 278.000 GHz 157.26 GHz 157.26 GHz 177.2000 GHz 287.00000	90	▲ ²					-25 (0 dBn	Start Fre
Stop I Stop I<	4.9					-	mum	30.000000 Mi-
Is BW 1.0 MHz #VBW 3.0 MHz Sweep 50.00 ms (30001 pts) 2,99700000 LICCE Lise SC1 2 Y PX51011 10251000000 Auto N 1 7 2,651 366 GHz -262 GHm Auto Freq OI N 1 1 2,435 592 GHz -282 06 dBm Freq OI Freq OI	19							Stop Fre 30.000000000 GF
MCCCEREZ CZL A Y P PARTON TAZTONINGCH PLACTONINGCH PLACTONINGCH FILCTONINGCH FILCTO			#V	BW 3.0 MHz	Swi	Sp eep 50.00 n	an 29.97 GHz ns (30001 pts)	CF Ste 2.997000000 GF Auto Mi
N 1 f 2435592 GHz -28.206 dBm Freq O				Y	FUNCTION FUNCT	ION MIDTH	FUNCTION WALVE	Auto ma
	2 N 1							Freq Offs 0 F
	3 4 5 6 7 8 9 0					_		
	0							
	a							

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

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Band41_20MHz+10MHz_QPSK_RB1-0_1-0_CH39750-39894

Kieysight Sp B	ectrum Analyzer - Swe	pr SA DC	SENSE:DUT	ALTON AUTO	10:46:43 AM May 25, 2022	
N	8- 307	PNO: Fast	Trig: Free Run	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6	Frequency
0 dB/div	Ref Offset 15 Ref 25.10 c	IFGain:Los		Mkr2	29.178 622 GHz -37.101 dBm	Auto Tur
og 15.1 5.10	V1					Center Fr 15.015000000 G
49					-25 00 dBm	Start Fr 30.000000 M
49 49 49	-					Stop Fr 30.000000000 G
Res BW	5.02 GHz 1.0 MHz		/BW 3.0 MHz		Span 29.97 GHz 0.00 ms (30001 pts)	CF St 2.997000000 C Auto M
2 N 3 4	f f	2.497 530 GHz 29.178 622 GHz	18.810 dBm -37.101 dBm	UNCTION FUNCTION (MDT)	FUNCTION WALVE	Freq Offe
5 6 7 8 9						
1	++		π		*	

			0MHz_QPSI	K_RB1-0_1-0	_CH40571-40	
Keysight Sp R R	éctrium Analyzér - Si RF 30 S		SENSE:DVT	Auton Auto MAvg Type: RMS Avg/Hold: 100/100	11:01:43 AM May 25, 2022 TRACE 1 2 3 4 5 6 TVPE M WWWWW DET P N N N N N	Frequency
10 dB/div	Ref Offset 1 Ref 25.10		#Atten: 20 dB	Mkr2	29.582 218 GHz -36.335 dBm	Auto Tun
15.1 5.10	Y					Center Free 15,015000000 GH
-14.90 -14.9 -24.9					-25 (0.0700	Start Free 30.000000 MH
34.9 -44.9 -54.9 -64.9	سميلر		and the second		and a state of the	Stop Fre 30,00000000 GH
Center 15 Res BW	1.0 MHz	#VB	W 3.0 MHz		Span 29.97 GHz 1.00 ms (30001 pts)	CF Ste 2.997000000 GH Auto Ma
1 N 2 N 3 4 5	f f	2,579 448 GHz 29,582 218 GHz	18.378 dBm -36.335 dBm	NCTION FUNCTION MDTH	FUNCTION WALUE	Freq Offse
6 7 8 9 10						
11 			*	STATU	s	

Band41_20MHz+10MHz_QPSK_RB1-0_1-0_CH41391-41535

	ectnim Analyzer - Si					
R	RF 305	PNO: Fast	SENSE:DVT	#Avg Type: RMS Avg/Hold: 100/100	11:08:53 AM May 25, 2022 TR4CE 1 2 3 4 5 6 TVPE M WWWWW	Frequency
10 dB/div	Ref Offset 1 Ref 25.10	IFGain:Low 5.1 dB	#Atten: 20 dB	Mkr2	2.436 591 GHz -29.186 dBm	Auto Tune
16.1 5.10						Center Fre 15,015000000 GH
-14.9	2 ²				-25.00 dBm	Start Fre 30.000000 MH
44.9 64.9 64.9	-				*****	Stop Fre 30.00000000 GH
Center 15 FRes BW	1.0 MHz	#VB	W 3.0 MHz		Span 29.97 GHz 1.00 ms (30001 pts)	CF Ste 2.997000000 GH Auto Ma
1 N 2 N 3 4 5 6 7	1 1	2.661 366 GHz 2.436 591 GHz	18.051 dBm -29.186 dBm	UNCTION FUNCTION WIDTH	FUNCTION WALLE	Freq Offse
8 9 10 11 *			π	STATU	· · ·	

Band41_15MHz+20MHz_QPSK_RB1-0_1-0_CH39728-39899

Frequency	AM May 25, 2022 RACE 1 2 3 4 5 6 TVPE M WAYAWW	T	ALIGN AUTO (pe: RMS id: 100/100	#Avg Avgit	enseinn ee Run	Trig: Fre	NO: Fast ~		- 31	3		R
Auto Tun	581 GHz 717 dBm	29.219	Mkr2 2		20 dB	#Atten: 1	Gain:Low	5.1 dB	Offset			
Center Fre		-30.		-				dBm	1 25.10	R	B/div	og 15.1
										-		4.90 14.9
Start Fre 30.000000 MH	-25.00.49m									+		24,9
Stop Fre					-		~~~~		y.	المي	-	44.9 54.9
CF Ste	29.97 GHz	Span								15.02		
2.997000000 GH Auto Ma	(30001 pts)		Sweep 50	FUNCTION		1 3.0 MHz		x		N 1.0	NCOE	100
Freq Offse 0 H						18.671 d -36.717 d		2.497 5 29.219 5		11	NN	1 3 4 5
										-		6 7 8 9
					-						_	10

Band41_15MHz+20MHz_QPSK_RB1-0_1-0_CH40523-40694

R	ectrum Analyzer - Su RF 30 S		SENSE: INT		ALIGN AUTO	09:05:37 AM May 25, 2022	
		PNO: Fest	Trig: Free Run		Type: RMS fold: 100/100	TRACE 1 2 3 4 5 6 TVPE MWWWW DET P N N N N	Frequency
dB/div	Ref Offset 1 Ref 25.10		#Atten: 20 db		Mkr2	2.431 596 GHz -33.020 dBm	Auto Tuni
90	Ť						Center Fre 15.015000000 GH
19	2					-25.00 alien	Start Free 30.000000 MH
	-			يادا المرجع والم		****	Stop Fre 30.00000000 GH
	5.02 GHz 1.0 MHz	#VB	W 3.0 MHz		Sweep 50	Span 29.97 GHz .00 ms (30001 pts)	CF Ste 2.997000000 GH Auto Ma
R NOOE T		X		FUNCTION	FUNCTION MIDTH	FUNCTION VALUE	Halo ma
1 N 2 N 3	1	2.576 451 GHz 2.431 596 GHz	18.622 dBm -33.020 dBm				Freq Offse 0 H
î	11						
					STATUS		

Band41_15MHz+20MHz_QPSK_RB1-0_1-0_CH41319-41490

-c- @	09:17:02 AM May 25, 2022	ALIGN AUTO		SENSE:07		RF 30 C		i Ka
Frequency	TR4CE 1 2 3 4 5 6	Type: RMS fold: 100/100	MAV	Trig: Free Run	PNO: Fast	R- 305		_
Auto Tur	2.435 592 GHz -28.041 dBm	Mkr2		#Atten: 20 dB	IFGain1.ow	Ref Offset 15		_
	-28.041 dBm				dBm	Ref 25.10	B/div) d
Center Fre 15,015000000 GR			_			1		5.1
Start Fre	-25 (0 aBe		-			2	-	90 4.9
30.000000 MH		-				1		4.9
			-	-		-		1.5
Stop Fre 30.00000000 GF			_					4.9
CF Ste 2.997000000 GH Auto Ma	Span 29.97 GHz .00 ms (30001 pts)	Sweep 50.		3.0 MHz	#VB	02 GHz .0 MHz		
Auto Ma	FUNCTION VALUE	FUNCTION MIDTH	FUNCTION	Y	X		MODE TR	
FregOffs				17.910 dBm -28.041 dBm	2.656 371 GHz 2.435 592 GHz	f	N 1 N 1	21
01	#					_	_	34567890
							_	578
								901
	+			17				1
		STATUS						G

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Band41_20MHz+15MHz_QPSK_RB1-0_1-0_CH39750-39921

neysigni apec	thim Analyzes - Swept SA RF 30 0 DC		SENSE:INT	ALIGN AUTO	02:00:19 PMMay 24, 2022	
N	R- 130 2 DC	PNO: Fest	Trig: Free Run	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TVPE M WWWW DET P NNNN N	Frequency
0 dB/div	Ref Offset 15.1 di Ref 25.10 dBm		#Atten: 20 dB	Mkr2	28.805 194 GHz -36.430 dBm	Auto Tur
og 15.1 5.10						Center Fro 15,015000000 Gi
4.9					-25 (0 494	Start Fr 30.000000 M
1.9 1.9						Stop Fr 30.000000000 G
enter 15. Res BW 1	1.0 MHz	#VB	W 3.0 MHz		Span 29.97 GHz 0.00 ms (30001 pts)	CF St 2.997000000 C Auto M
01 M002 182 1 N 1 2 N 1 3 4	1 2	497 530 GHz 805 194 GHz	19.539 dBm -36.430 dBm	UNCTION FUNCTION (MDT)	FUNCTION WALVE	Freq Offe
5 6 7 8						
10						

	Band4		5MHz_QPSł	K_RB1-0_1-0	_CH40546-40	717
R R	RF 30 S	2 DC	SENSE:DVT	ALIGN AUTO #Avg Type: RMS Avg Hold: 100/100	03:09:16 PMMay 24, 2022 TRACE 1 2 3 4 5 6 TVPE M WWWWW	Frequency
		PNO: Fast IFGain:Low	#Atten: 20 dB		DETPNNNNN	Auto Tun
10 dB/div	Ref Offset 1 Ref 25.10			Mkr2 :	28.784 216 GHz -36.319 dBm	Auto Tun
15.1	1					Center Fre
5,10	+					15,015000000 GH
4.90						Start Free
-24.9					-25.00 4Pm	30.000000 MH
44.9	بمسمله					Stop Fre
64.9						30,00000000 GH
Center 15					Span 29.97 GHz	CF Ste 2.997000000 GH
Res BW	1.12 1.11.74	#VE	W 3.0 MHz	Sweep 50	0.00 ms (30001 pts)	2.997000000 GH Auto Ma
1 N 1	f	2.576 451 GHz 28.784 216 GHz	17.161 dBm -36.319 dBm			
3 4 5						Freq Offse 0 H
6 7 8						
9						
11					· · · · · · · · · · · · · · · · · · ·	
ISG				STATU	s	

Band41_20MHz+15MHz_QPSK_RB1-0_1-0_CH41341-41512

							ctrum Analyzes	eysight Spe
Frequency	06:25:07 PMNay 24, 2022 TR40E 1 2 3 4 5 6 TVPE M WWWWW	alton Auto Type: RMS Hold: 100/100	#A	SENSE:0	GHz	15000000		nter Fi
Auto Tune	2.434 593 GHz -28.371 dBm			#Atten: 20 dB	PNO: Fest ** IFGain:Low	t 15.1 dB	Ref Offse Ref 25.	B/div
Center Free 15,015000000 GH							X1	
Start Free 30.000000 MH	-25 (0 dBr						≜ ²	
Stop Fre 30.00000000 GH		المرجلة المرجلين المرجلين المرجلين			*****	*******	سجمال	-
	Span 29.97 GHz .00 ms (30001 pts)			3.0 MHz	#VB		.02 GHz 1.0 MHz	es BW
Freq Offse	FUNCTIONWAUE	FUNCTION WIDTH	FUNCTION	19,462 dBm -28.371 dBm	362 GHz 593 GHz	× 2.665 2.434	f f	N 1 N 1
				7				
		STATUS						

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

Frequency	10:02:51 AM May 24, 2022 TR4CE 1 2 3 4 5 6 TVPE M WWWWW	vg Type: RMS gHold: 100/100		Trig: Free R	PNO: Fast ~	30 Q DC		_	
Auto Tun	29.173 826 GHz			#Atten: 20 d	IFGain:Low				_
	-37.551 dBm	MIKEZ 2				et 15.1 dB 10 dBm		3/div	10 dE
Center Fre							Y1		15.1
15,015000000 GH					_	_			5,10
		_			-	-	+		4,90
Start Fre	-25.00 dBm						1		-14.9
30.000000 MH	¢2								34.9
Stop Fre			-	-	-		يعجبا		44.9
30.00000000 GH			-		-	-	-		54.9
									64.9
CF Ste 2.997000000 GH	Span 29.97 GHz .00 ms (30001 pts)	Sweep 50.		3.0 MHz	#VB		02 GHz		
Auto Ma	FUNCTION WALVE	FUNCTION MOTH	FUNC	Ÿ		X			
				19.196 dBm -37.551 dBm	530 GHz 826 GHz	2,497 29,173	f	N 1	1
Freq Offse			_						3
								_	5
									678
									8 9
	-								11
		STATUS							55

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

	RF 31		SENSE:		ALIGN AUTO	11:30:55 AM May 24, 2022	
		PNO: Fast	Trig: Free Ru	n Avg	Type: RMS Hold: 100/100	TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN	Frequency
	Ref Offset Ref 25.10		v #Atten: 20 dE		Mkr2 2	29.169 829 GHz -36.866 dBm	Auto Tun
9 5.1 10 90	/1						Center Fre 15,015000000 GH
9						-25 (0 die 2	Start Fre 30.000000 Mil
9 9	linguis		*****				Stop Fre 30.00000000 GR
nter 15.0 es BW 1.	0 MHz	#\	/BW 3.0 MHz			Span 29.97 GHz .00 ms (30001 pts	
N 1 N 1	f f	2.574 453 GHz 29.169 829 GHz	19.568 dBm -36.866 dBm	FUNCTION	FUNCTION MIDTH	FUNCTION VALUE >	
							Freq Offs 0 i
	_						
1	-						

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

			ALIGN AUTO						414Water - \$	ctnim A	sight Spec	Key
Frequency	35 PM Nay 24, 2022 TRACE 1 2 3 4 5 6 TVPE N WWWW	TF	pe: RMS d: 100/100	MAvg			NO: Fast		1.261	N2-		R.
Auto Tun	4 593 GHz	2 2.434			0 dB	#Atten: 2	Gaintlow	IF	Offset 1	Def		_
	9.957 dBm	-29.							25.10		3/div	de bar
Center Fre		-		_	_	-	-	-		1	-	6.1
15,015000000 GH				-				+		+		10
Start Fre											1	90 19
30.000000 MH	-25.00 dBm			-								1,9
	-	-	-							L.		1.9
Stop Fre									4		-	19
30.00000000 GF				-				-		_		19
CF Ste 2.997000000 GH	an 29.97 GHz s (30001 pts)	Span 0.00 ms	Sweep 50	_		(3.0 MHz	#VB				er 15 BW	
<u>iuto</u> Ma			UNCTION WIDTH	INCTION		Ŷ		x		CISCU	1006 19	
-						17.082 dE -29.957 dE	76 GHz 93 GHz	2.651 37		f		1
Freq Offs												3
		-			-		-				-	5
					_						_	4
										+	-	8
					-		-				-	3 4 5 6 7 8 9 0

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10 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1 **Standard Applicable**

According to FCC §2.1053,

FCC §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 $43 + 10 \log(P) dB$.

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 that 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 nstrumentation 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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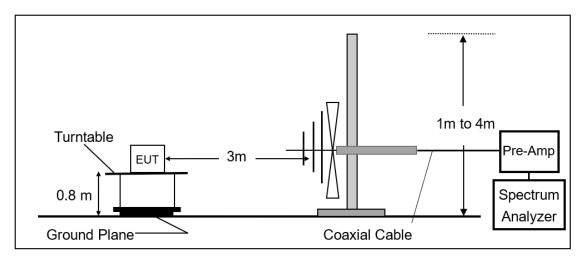
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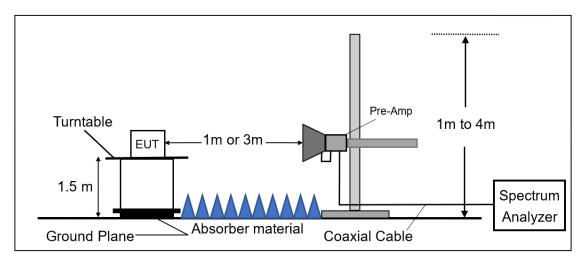


10.2 EUT Setup

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	:TERF2204000398E2	Test Site	:SAC G
Operation Mode	:41C	Test Date	:2022-06-10
Test Mode	:Tx CH LOW	Temp./Humi.	:21.7/70
EUT Pol	:E1 Plane	Antenna Pol.	:Vertical
Test Frequency	:2501.5 MHz + 2515.9 MHz	Engineer	:Quentin Liu

80 Level (dB	m/m)					
70						
50						
30						
10						
-10						
-30	7 8					
-50						
-70						
-90 30	5324.	10618.	15912.	21206.	26500	
		Frequency	(MHz)			
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.920	-47.40	-43.55	-1.05	-2.80	-25.00	-22.40
251.160	-46.75	-47.95	4.31	-3.11	-25.00	-21.75
140.310	-45.64	-46.93	4.04	-2.75	-25.00	-20.64
603.270	-39.99	-40.78	3.61	-2.82	-25.00	-14.99
335.100	-37.10	-37.79	4.59	-3.90	-25.00	-12.10
980.600	-35.27	-34.55	3.80	-4.52	-25.00	-10.27
017.400	-46.86	-48.43	12.53	-10.96	-25.00	-21.86
017.400 526.100	-46.86 -47.13	-48.43 -44.77	12.53 11.25	-10.96 -13.61	-25.00 -25.00	-21.86 -22.13

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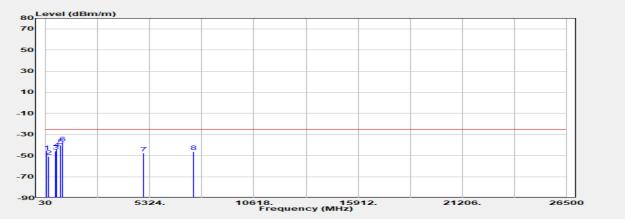
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Report Number	:TERF2204000398E2	Test Site	:SAC G
Operation Mode	:41C	Test Date	:2022-06-10
Test Mode	:Tx CH LOW	Temp./Humi.	:21.7/70
EUT Pol	:E1 Plane	Antenna Pol.	:Horizontal
Test Frequency	:2501.5 MHz + 2515.9 MHz	Engineer	:Quentin Liu



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
42.610	-46.04	-30.3	-13.31	-2.43	-25.00	-21.04
154.160	-50.68	-46.45	-1.41	-2.82	-25.00	-25.68
516.940	-45.60	-46.9	4.09	-2.79	-25.00	-20.60
551.860	-43.68	-44.8	4.20	-3.08	-25.00	-18.68
773.020	-40.41	-40.22	3.13	-3.32	-25.00	-15.41
857.410	-38.14	-38.8	4.58	-3.92	-25.00	-13.14
5017.400	-47.46	-49.03	12.53	-10.96	-25.00	-22.46
7526.100	-46.40	-44.04	11.25	-13.61	-25.00	-21.40

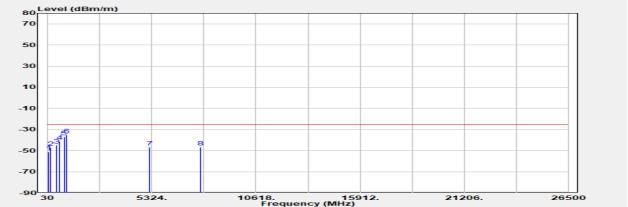
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Report Number	:TERF2204000398E2	-
Operation Mode	:41C	-
Test Mode	:Tx CH MID	-
EUT Pol	:E1 Plane	
Test Frequency	:2583.6 MHz + 2598 MHz	I

Test Site	:SAC G
Test Date	:2022-06-10
Temp./Humi.	:21.7/70
Antenna Pol.	:Vertical
Engineer	:Quentin Liu



		Frequency	(IVIHZ)			
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
60.070	-51.29	-39.18	-9.56	-2.55	-25.00	-26.29
186.170	-47.30	-46.96	2.59	-2.93	-25.00	-22.30
472.320	-44.90	-46.01	4.14	-3.03	-25.00	-19.90
612.970	-41.12	-41.65	3.45	-2.92	-25.00	-16.12
849.650	-36.98	-37.84	4.65	-3.79	-25.00	-11.98
988.360	-35.09	-34.5	3.96	-4.55	-25.00	-10.09
5181.600	-46.82	-48.42	12.75	-11.15	-25.00	-21.82
7772.400	-46.67	-44.91	11.86	-13.62	-25.00	-21.67

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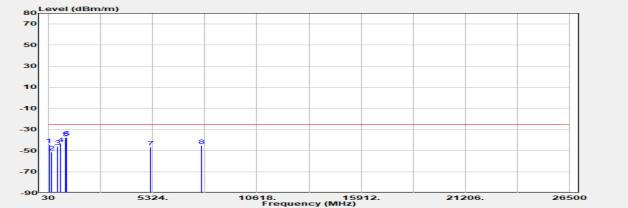
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Report Number	:TERF2204000398E2	Test S
Operation Mode	:41C	Test D
Test Mode	:Tx CH MID	Temp./
EUT Pol	:E1 Plane	Antenr
Test Frequency	:2583.6 MHz + 2598 MHz	Engine

Test Site	:SAC G
Test Date	:2022-06-10
Temp./Humi.	:21.7/70
Antenna Pol.	:Horizontal
Engineer	:Quentin Liu



		Trequency	(1112)			
Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.820	-44.38	-28.28	-13.69	-2.41	-25.00	-19.38
178.410	-51.44	-49.63	1.07	-2.88	-25.00	-26.44
462.620	-46.11	-47.42	4.11	-2.80	-25.00	-21.11
610.060	-43.53	-44.47	3.47	-2.80	-25.00	-18.53
857.410	-38.14	-38.8	4.58	-3.92	-25.00	-13.14
950.530	-37.70	-37.07	3.80	-4.43	-25.00	-12.70
5181.600	-46.72	-48.32	12.75	-11.15	-25.00	-21.72
7772.400	-45.19	-43.43	11.86	-13.62	-25.00	-20.19

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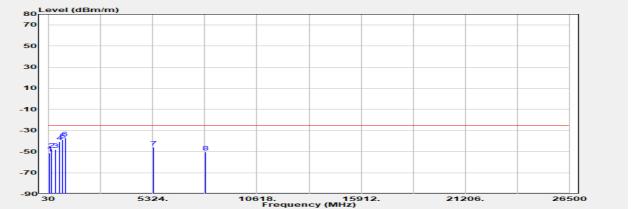
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Report Number	:TERF2204000398E2	Test
Operation Mode	:41C	Test
Test Mode	:Tx CH HIGH	Tem
EUT Pol	:E1 Plane	Ante
Test Frequency	:2665.6 MHz + 2680 MHz	Eng

Test Site	:SAC G
Test Date	:2022-06-10
Temp./Humi.	:21.7/70
Antenna Pol.	:Vertical
Engineer	:Quentin Liu



			inequency	(11112)			
	Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
_	MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
	60.070	-51.29	-39.18	-9.56	-2.55	-25.00	-26.29
	161.920	-47.40	-43.55	-1.05	-2.80	-25.00	-22.40
	348.160	-47.94	-49.17	4.50	-3.27	-25.00	-22.94
	552.830	-40.64	-41.76	4.22	-3.10	-25.00	-15.64
	727.430	-38.78	-38.05	3.15	-3.88	-25.00	-13.78
	849.650	-36.98	-37.84	4.65	-3.79	-25.00	-11.98
	5345.600	-45.62	-47.67	13.39	-11.34	-25.00	-20.62
	8018.400	-50.32	-47.49	11.16	-13.99	-25.00	-25.32

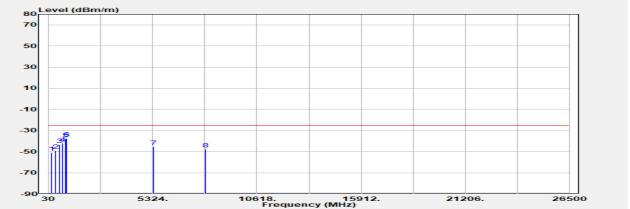
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Report Number	:TERF2204000398E2	Test Site
Operation Mode	:41C	Test Date
Test Mode	:Tx CH HIGH	Temp./Humi.
EUT Pol	:E1 Plane	Antenna Pol.
Test Frequency	:2665.6 MHz + 2680 MHz	Engineer

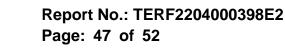
Test Site	:SAC G
Test Date	:2022-06-10
Temp./Humi.	:21.7/70
Antenna Pol.	:Horizontal
Engineer	:Quentin Liu



	Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
_	MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
	154.160	-50.68	-46.45	-1.41	-2.82	-25.00	-25.68
	350.100	-48.79	-50.08	4.54	-3.25	-25.00	-23.79
	551.860	-43.68	-44.8	4.20	-3.08	-25.00	-18.68
	706.090	-42.08	-42.22	3.49	-3.35	-25.00	-17.08
	857.410	-38.14	-38.8	4.58	-3.92	-25.00	-13.14
	950.530	-37.70	-37.07	3.80	-4.43	-25.00	-12.70
	5345.600	-45.53	-47.58	13.39	-11.34	-25.00	-20.53
	8018.400	-47.46	-44.63	11.16	-13.99	-25.00	-22.46

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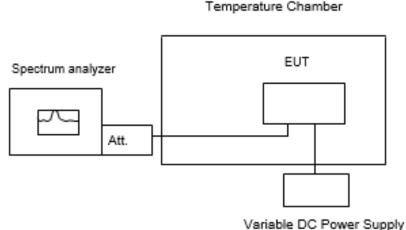


11 FREQUENCY STABILITY MEASUREMENT

11.1 Standard Applicabl

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

11.2 Test Set-up



variable DC Power Supply

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 3.8Vdc.

Reference Freg.:	LTE CAB41: Mid Cha	2593		
Relefence i leq	Channel Bandwidth:	20MHz+20MHz		
Power Supply Vdc	Temp. (°⊂)	Frequency (MHz)	Frequency Error	
	,	,	(ppm)	
	Freq. ERR	OR vs. VOLTAGE		
4.37	25	2593.000014	0.0055	
3.8	25	2593.000013	0.0048	
3.23	25	2592.999997	-0.0010	
3.4	25	2593.000014	0.0054	
(End Point)	20	2000.000014	0.0001	
	Freq. ER	ROR vs. Temp.		
3.8	-30	2593.000005	5.1000	
3.8	-20	2592.999993	-6.7000	
3.8	-10	2592.999998	-1.7000	
3.8	0	2592.999997	-2.6000	
3.8	10	2593.000015	14.9000	
3.8	20	2592.999983	-17.5000	
3.8	30	2593.000017	16.9000	
3.8	40	2592.999994	-6.1000	
3.8	50	2593.000019	18.5000	

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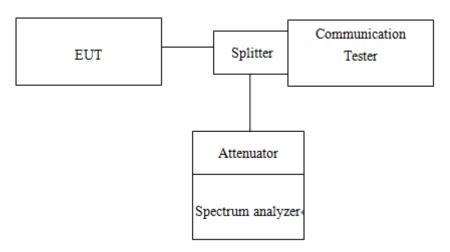


12 PEAK TO AVERAGE RATIO

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.

12.4 Measurement Result

LTE BAND 41C

Band	Bandwidth	RB Allocation/RB	Freqency	PAPR (dB)	
		Offset	(MHz)	64QAM	Limit
LTE BAND 41C	5MHz + 20MHz	25/0 + 100/0	2593.0	12.110	13
LTE BAND 41C	20MHz+5MHz	100/0 + 25/0	2593.0	7.750	13
LTE BAND 41C	10MHz + 20MHz	50/0 + 100/0	2593.0	7.610	13
LTE BAND 41C	20MHz+10MHz	100/0 + 50/0	2593.0	11.110	13
LTE BAND 41C	15MHz + 15MHz	75/0 + 75/0	2593.0	7.720	13
LTE BAND 41C	15MHz + 20MHz	75/0 + 100/0	2593.0	8.490	13
LTE BAND 41C	20MHz+15MHz	100/0 + 75/0	2593.0	11.800	13
LTE BAND 41C	20MHz + 20MHz	100/0 + 100/0	2593.0	11.110	13

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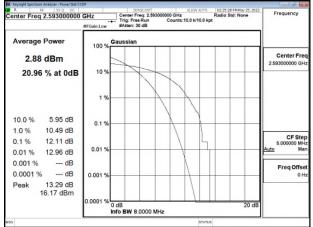
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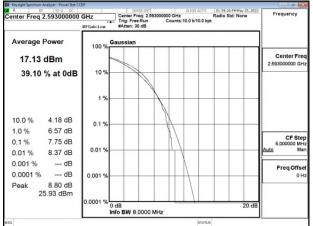
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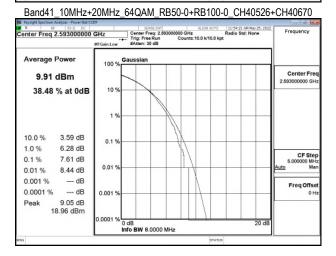


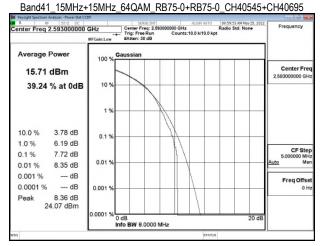
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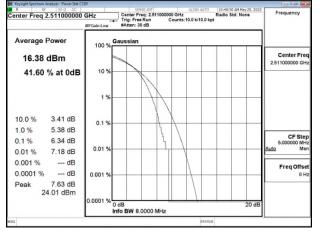
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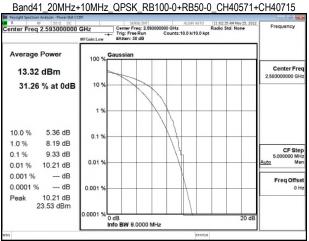






Band41_20MHz+10MHz_QPSK_RB100-0+RB50-0_CH39750+CH39894





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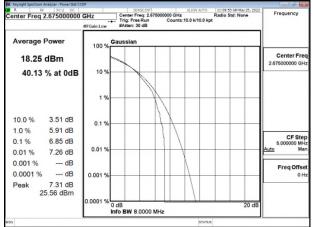
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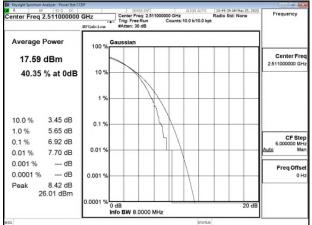
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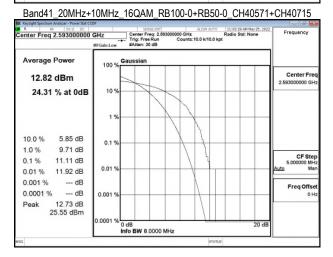


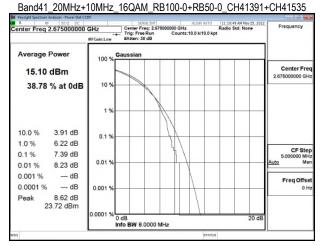
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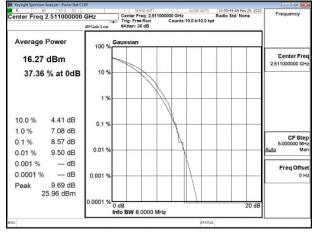
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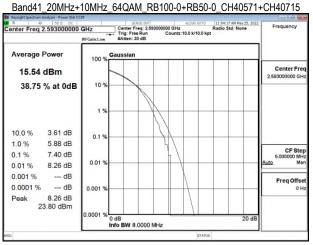






Band41_20MHz+10MHz_64QAM_RB100-0+RB50-0_CH39750+CH39894





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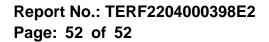
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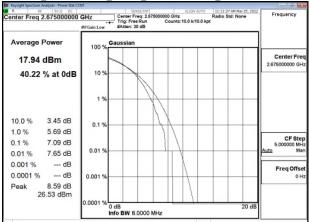
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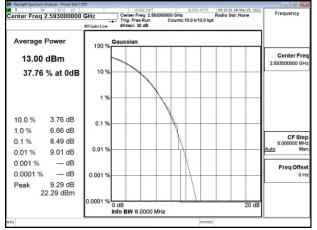


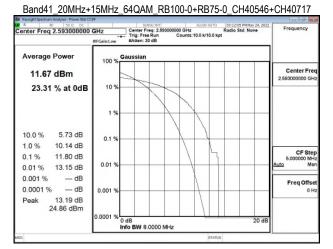


Band41_20MHz+10MHz_64QAM_RB100-0+RB50-0_CH41391+CH41535

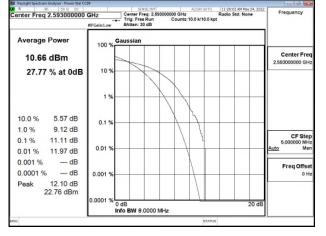


Band41_15MHz+20MHz_64QAM_RB75-0+RB100-0_CH40523+CH40694









~ End of Report ~

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