

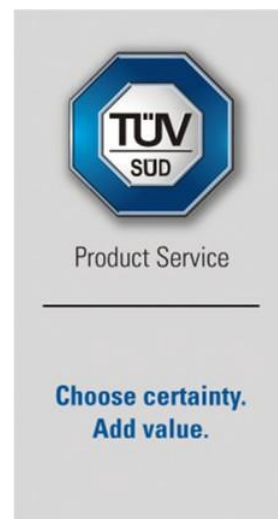
Report On

Application for Grant of Equipment Authorization of the Nextivity Inc. Cel-Fi Go G43-BBBE Cellphone Signal Booster

In accordance with:
FCC CFR 47 Part 20
RSS-131 Issue 4

Prepared for:
Nextivity Inc.
16550 West Bernardo Drive, Bldg 5, Suite 550,
San Diego, CA 92127, USA

Issue Date: November 2023
Document Number: 72182578B | Issue: 01



RESPONSIBLE FOR	NAME	TITLE	DATE	SIGNATURE
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Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

EXECUTIVE SUMMARY

Report and test data representing the EUT are verified and the EUT itself found to be in compliance with FCC CFR 47 Part 20 and RSS-131 Issue 4 for ISSED



A2LA Cert. No. 2955.13

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ACCREDITATION

Our A2LA Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our A2LA Accreditation.

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	Initial Release	11/21/2023

1.2 Introduction

The information contained in this report is intended to show verification of the Nextivity Inc. Cel-Fi GO G43-BBBE to the requirements of FCC CFR 47 Part 20 and RSS-131.

Cel-Fi GO G43-BBBE (EUT) contains three G41-BE boards. G41-BE was previously tested and certified as YETG41-BE FCC ID. All test results presented in this report are being leveraged from 72189913D Nextivity G41-BE FCC Part 20 RSS-131 B2, 4, 5, 12, 13, 25 Test Report.

Objective	To perform Radio Testing to determine the Equipment Under Test's (EUT's) compliance with the Test Specification, for the series of tests carried out.
Manufacturer	Nextivity Inc. 16550 West Bernardo Drive, Bldg 5, Suite 550, San Diego, CA 92127, USA
Applicant Contact Information	CK Li Sr. Principal Engineer, Regulatory CLi@NextivityInc.com (858) 485-9442
FCC ID	YETG43-BBBE
ISED Certification Number:	9298A-G43BBBE
Model Number(s)	G43-BBBE
Test Specification/Issue/Date	- FCC CFR 47 Part 20 (October 1, 2022). - RSS-131 – Zone Enhancers (Issue 4, December 2022).
Start of Test	August 02 2023
Finish of Test	October 29 2023
Name of Engineer(s)	Miguel Angel Rabago Garcia
Related Document(s)	- Product Spec for RFQ_Little Foot_US_v11.pdf - KDB935210 (D04 Provider Specific Booster Measurements v02r04) Provider-Specific Consumer Signal Booster Compliance Measurements Guidance. 72189913D Nextivity G41-BE FCC Part 20 RSS-131 B2, 4, 5, 12, 13, 25 Test Report



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1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC CFR 47 Part 20 with cross-reference to the corresponding requirements of KDB935210 D04 and ISSED RSS-131 is shown below.
By client request only Band 25 High Channel was tested in some test cases, because it is superset of Band 2

Section	Spec Clause			Test Description	Results
	FCC Part	KDB935210 D04	RSS/ICES		
2.1	20.21 (e)(3) Frequency Bands	7.1.1	-	Authorized Frequency Band Verification	Compliant
2.2	20.21 (e)(3) Frequency Bands 20.21 (e)(4) Self-Monitoring	7.1.2	-	Test Authorized CMRS provider test	Compliant
2.3	20.21(e)(9)(i)(D) Power Limits 20.21(e)(9)(i)(B) Bidirectional Capability 20.21(e)(9)(i)(C)(2) Booster Gain Limits	7.2 7.3	RSS-131 Clause 6.1.2 RSS-131 Clause 8.3	Maximum Power measurement procedure Maximum Booster Gain Computer	Compliant
2.4	20.21(e)(9)(i)(G) Intermodulation Limit	7.4	RSS-131 Clause 8.6	Intermodulation Product	Compliant
2.5	20.21(e)(9)(i)(F) Out of Band Emission Limit	7.5	RSS-131 Clause 8.5	Out-of-Band Emissions	Compliant
2.6	20.21(e)(9)(i)(F) Out of Band Emission Limit 2.1051 Measurements required: Spurious emissions at antenna terminals. 22.917 (a) Emission limitations for cellular equipment. 24.238 (a) Emission limitations for Broadband PCS equipment.	7.6	RSS-13 8.5	Conducted Spurious Emissions	Compliant
2.7	20.21(e)(9)(i)(A) Noise Limits 20.21(e)(9)(i)(I) Transmit Power Off Mode	7.7	RSS-131 Clause 8.1 RSS-131 Clause 8.7	Noise Limits	Compliant
2.8	20.21(e)(9)(i)(J) Uplink Inactivity	7.8	RSS-131 Clause 8.8	Uplink inactivity	Compliant
2.9	20.21(e)(9)(i)(C)(1) Booster Gain Limits 20.21(e)(9)(i)(I) Transmit Power Off Mode	7.9	RSS-131 Clause 8.2 RSS-131 Clause 8.7	Variable Booster Gain	Compliant
2.10	2.1049 Measurements required: Occupied bandwidth. 22.917 (b) Emission limitations for cellular equipment. 24.238 (b) Emission limitations for Broadband PCS equipment.	7.10	RSS-Gen 6.7	Occupied Bandwidth	Compliant
2.11	20.21(e)(9)(ii)(A) Anti-Oscillation	7.11	RSS-131 Clause 6.1.1	Oscillation Detection	Compliant
-	20.21(e)(9)(i)(C)(2)(iii) Automatic Feedback Cancellation	7.12	-	Mobile Booster Automatic Feedback Cancellation	N/A; Applicable to Mobile Booster



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-	20.21(e)(9)(i)(B) Bidirectional Capability 20.21(e)(3) Frequency Band	7.14	-	Spectrum Block Filtering	N/A***
2.12	20.21(e)(9)(i)(E) Out of Band Gain Limit	7.15	RSS-131 Clause 8.4	Out of Band Gain	Compliant
2.13	2.1055 Measurements required: Frequency stability. 22.355 Frequency tolerance 24.235 Frequency stability. 27.54 Frequency stability.	7.16	RSS 132 Clause 5.3 RSS 133 Clause 6.3 RSS 139 Clause 6.4 RSS 130 Clause 4.5 RSS 195 Clause 5.4	Frequency Stability	Compliant
2.14	§ 2.1053 Measurements required: Field strength of spurious radiation.	7.13	RSS Gen 130 Clause 4.7.1 RSS-Gen 132 Clause 5.5 RSS-Gen-139 Clause 5.6 RSS Gen 140 Clause 4.4	Radiated Emissions Limits	Compliant

Note: Test results from section 2.1 to section 2.13 presented in this report are being leveraged from 72189913D Nextivity G41-BE FCC Part 20 RSS-131 B2, 4, 5, 12, 13, 25 Test Report.

*N/A*** Not Applicable. The EUT does not utilize spectrum block filtering.*

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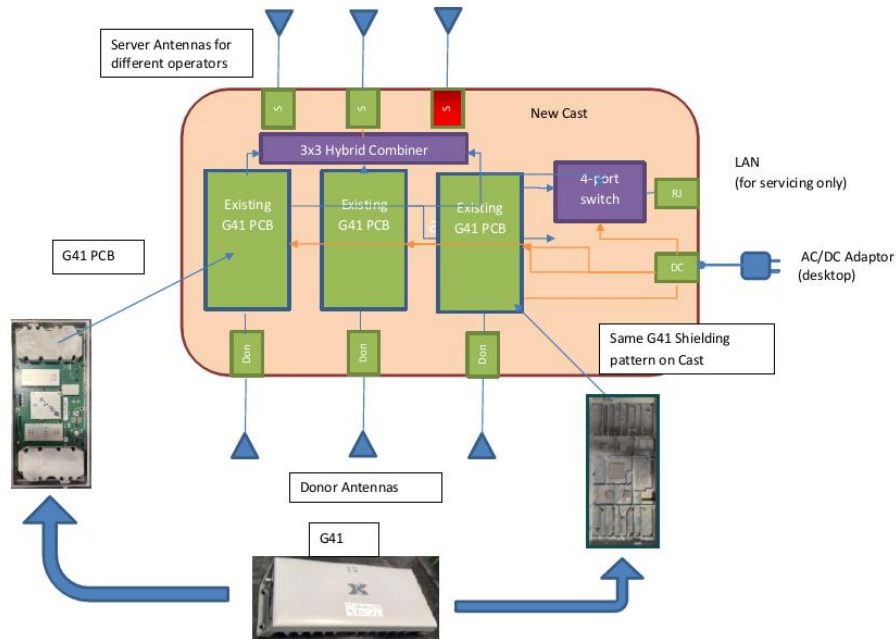
1.4 Product Information

1.4.1 Technical Description

CEL-FI GO G43 is a multi-operator LTE Provider Specific Signal solution that ensures reliable in-building 4G connectivity for up to three Mobile Network Operator (MNO) signals.

Cel-FiTMLittle Foot is a single box LTE Signal Booster consist of three G41-BE (or G41-CE) PCBs. Little Foot is for indoor environments and target for North America market.

EUT is powered by external 12VDC Power adaptor.



Cell Band Combinations

	Operator 1	Operator 2	Operator 3
Bands	4/5/12/13/25	4/5/12/13/25	4/5/12/13/25
Relay Combinations	Select any two bands from each column for relay	Select any two bands for relay	Select any two bands for relay
Mutual Exclusivity	Bands 12 & 13 are mutually exclusive per operator		



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1.4.2 EUT Specification

EUT Description	Cellphone Signal Booster	
Trade Name	Cel-Fi™	
Model Name	Cel-Fi Go	
Model Number(s)	G43-BBBE	
Rated Voltage	12V DC via external AC/DC adaptor	
Mode Verified	LTE Band 2, 4, 5, 12, 13 and 25	
Frequency Bands	LTE Band 2:	UL: 1850 - 1910MHz DL: 1930 - 1990MHz
	LTE Band 4:	UL: 1710 - 1755MHz DL: 2110 - 2155MHz
	LTE Band 5:	UL: 824 - 849MHz DL: 869 - 894MHz
	LTE Band 12:	UL: 699 - 716MHz DL: 729 - 746MHz
	LTE Band 13:	UL: 777 - 787MHz DL: 746 - 756MHz
	LTE Band 25:	UL: 1850 - 1915MHz DL: 1930 - 1995MHz

Rated Power

Signal Bandwidth (MHz)	LTE Band 2, 4, 25		LTE Band 5, 12, 13	
	DL (dBm)	UL (dBm)	DL (dBm)	UL (dBm)
5	Max. 16	22	Max. 16	20
10				
15			N/A	
20			N/A	

Capability	LTE Band 2, 4, 5, 12, 13 and 25
Channel Bandwidth	LTE Band 2, 4, 25: 5MHz, 10MHz, 15MHz and 20MHz LTE Band 5, 12, 13: 5MHz and 10MHz
Primary Unit (EUT)	☐ Production ☐ Pre-Production ☒ Engineering (same as Production)



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Manufacturer Declared Temperature Range 0°C to 40°C

Antenna Type External (SMA Connectors)

Manufacturer N/A

Antenna Model N/A

Input and Output ports Impedance 50 Ohm

Gain

Freq	Max System Gain
< 1 GHZ	95 dB
>1 GHz	100 dB

Maximum Antenna System
(Antenna + Cable) Gain

Port	Max System (Antenna & Cable) Gain
Server Port	0.17 dBi for LTE Band 2 0.05 dBi for LTE Band 4 0.08 dBi for LTE Band 5 0.27 dBi for LTE Band 12 0.05 dBi for LTE Band 13 0.3 dBi for LTE Band 25
Donnor Port	8.14 dBi for LTE Band 2 7.68 dBi for LTE Band 4 10.34 dBi for LTE Band 5 10.19 dBi for LTE Band 12 10.22 dBi for LTE Band 13 8.4 dBi for LTE Band 25



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1.4.3 Transmit Frequency Table

Mode	Signal Bandwidth (MHz)	Tx Frequency (MHz)	Emission Designator	EIRP	
				Max. Power Avg (dBm)	Max. Power Avg (W)
LTE Band 2 Downlink	5	1932.5 – 1987.5	4M63F9W	9.83	0.009616123
	10	1935 – 1985	8M96F9W	12.46	0.01761976
	15	1937 – 1982.5	13M4F9W	14.46	0.027925438
	20	1940 – 1980	17M9F9W	15.87	0.038636698
LTE Band 2 Uplink	5	1852.5 – 1907.5	4M47F9W	21.79	0.151008015
	10	1855 – 1905	8M98F9W	21.86	0.153461698
	15	1857.5 – 1902.5	13M4F9W	21.72	0.148593564
	20	1860 - 1900	17M9F9W	21.62	0.145211162
LTE Band 4 Downlink	5	2110 - 2155	4M72F9W	9.95	0.009885531
	10	2110 - 2155	9M31F9W	12.57	0.018071741
	15	2110 - 2155	13M6F9W	14.45	0.027861212
	20	2110 - 2155	18M4F9W	15.59	0.0362243
LTE Band 4 Uplink	5	1710 - 1755	4M64F9W	22.08	0.161435856
	10	1710 - 1755	9M26F9W	22.2	0.165958691
	15	1710 - 1755	13M6F9W	22.32	0.170608239
	20	1710 - 1755	18M4F9W	22.09	0.161808004
LTE Band 5 Downlink	5	871.4 – 891.6	4M73F9W	9.92	0.009817479
	10	871.4 – 891.6	9M24F9W	12.1	0.016218101
LTE Band 5 Uplink	5	826.4 – 846.6	4M73F9W	19.66	0.092469817
	10	826.4 – 846.6	9M24F9W	19.57	0.09057326
LTE Band 12 Downlink	5	729 - 746	4M73F9W	9.73	0.009397233
	10	729 - 746	9M24F9W	12.7	0.018620871
LTE Band 12 Uplink	5	699 - 716	4M64F9W	19.56	0.090364947
	10	699 - 716	9M25F9W	19.81	0.095719407
LTE Band 13 Downlink	5	746 - 756	4M62F9W	9.95	0.009885531
	10	746 - 756	9M20F9W	11.41	0.013835664
LTE Band 13 Uplink	5	777 - 787	4M72F9W	19.78	0.095060479
	10	777 - 787	9M17F9W	19.49	0.088920112
LTE Band 25 Downlink	5	1932.5 – 1992.5	4M63F9W	9.68	0.009289664
	10	1935 – 1990	8M96F9W	12.31	0.017021585



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	15	1937.5 – 1987.5	13M4F9W	13.6	0.022908677
	20	1940 – 1985	17M9F9W	13.89	0.024490632
LTE Band 25 Uplink	5	1852.5 – 1912.5	4M47F9W	20.84	0.121338885
	10	1855 – 1910	8M98F9W	20.79	0.11994993
	15	1857.5 – 1907.5	13M4F9W	20.95	0.124451461
	20	1860 – 1905	17M9F9W	21.6	0.144543977

Note: EIRP was computed with power output results on section 2.3.9 and maximum system gain from table 1.4.2

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1.4.4 Test Configuration

Configuration Number	Description
A	Test Mode - Downlink (CU TX). Input signal is applied to antenna port of NU. Output is monitored from antenna port of CU. (refer to 1.4.4 Figure 3)
B	Test Mode - Uplink (NU TX). Input signal is applied to antenna port of CU. Output is monitored from antenna port of NU. (refer to 1.4.4 Figure 2)
C	Normal Mode - Downlink (CU TX). Base Station Simulator is employed to send a modulated signal to antenna port of NU. Antenna port of CU is terminated with a 50Ω load. (refer to 1.4.4 Figure 1)
D	Normal Mode - Uplink (NU TX). Base Station Simulator is employed to send a modulated signal to antenna port of NU. Input signal is applied to antenna port of CU. (refer to 1.4.4 Figure 1)
E	Inter-modulation. Test setup identical to Test Configuration A and B above with the addition of another signal applied to the input of the EUT. A coupler was used in the setup to ensure that the additional signal is directed to the EUT input port. (refer to 1.4.4 Figure 5)
F	Max Downlink noise limit testing - A 50 Ohm Termination is connected to the NU antenna port and Measure the Noise Limit at the CU antenna port. (refer to 1.4.4 Figure 6)
G	Max Uplink RSSI-dependent noise limit testing - A 50 Ohm Termination is connected to the CU antenna port. A signal is connected to a step attenuator and then applied to the NU antenna port. Output is monitored from antenna port of NU. (refer to 1.4.4 Figure 7)
H	Max Downlink RSSI-dependent noise limit testing - A 50 Ohm Termination is connected to the CU antenna port. A signal is connected to a step attenuator and then applied to the NU antenna port. Output is monitored from antenna port of CU. (refer to 1.4.4 Figure 8)

1.4.5 EUT Exercise Software

Manufacturer Provided a Nextivity Chart Interface v2.0.0.16

1.4.6 Support Equipment and I/O cables

Manufacturer	Equipment/Cable	Description
Lenovo	Support Laptop	M/N: 20AR-S4250S, S/N: PC-03DGHKK 125/02
Lenovo	Support Laptop AC Adapter	M/N: ADLX90NLC2A S/N: 11S45N0247Z1ZS9B6926Z5
Nextivity	Support USB cable x 1	Custom 1.0 meter shielded USB Type A to Micro B cable

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SIMSUKIAN	AC/DC Adapter	M/N: SK03T1-1200250V S/N: 22080308000658 IP: 100-240VAC 50/60Hz 0.6A; OP: 12VDC 2.5A 30.0W
Rohde & Schwarz	Vector Signal Generator	M/N: SMBV100A, S/N: 259021
Agilent	ESG Vectot Signal Generator	S/N: MY47271206 M/N:E4438C
Aeroflex	Signal Generator	M/N: 3005, S/N: 3005A/09L

1.4.7 Simplified Test Configuration Diagram

Figure 1 – Test configuration in EUT normal operational mode

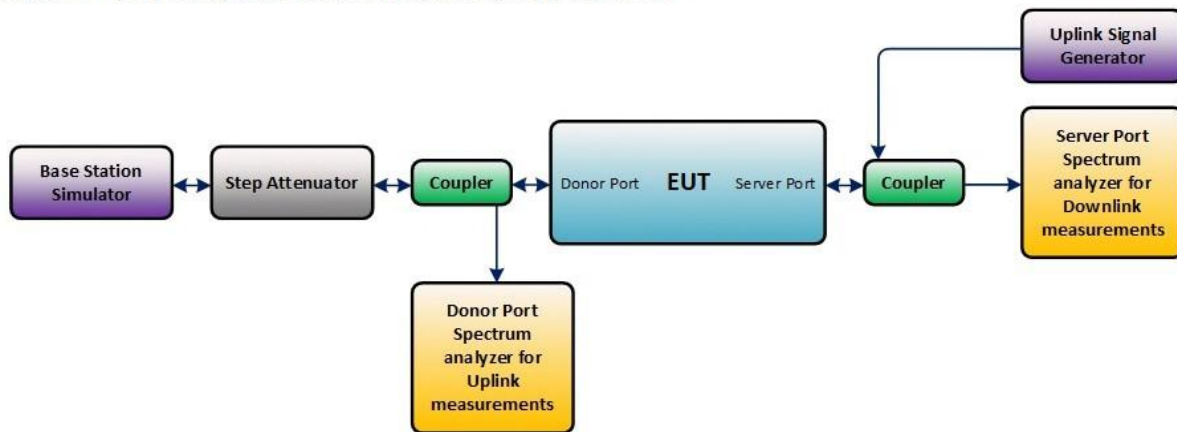


Figure 2 – Uplink test configuration in EUT test mode



Figure 3 – Downlink test configuration in EUT test mode



Figure 5 – Intermodulation product instrumentation test setup

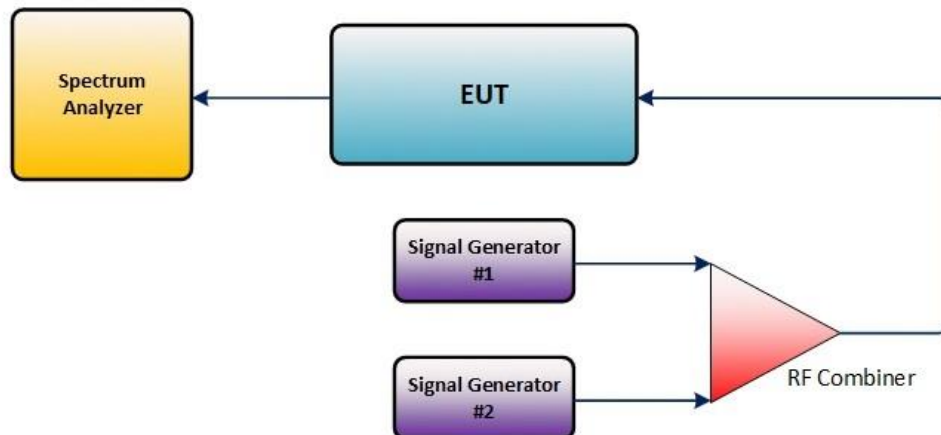
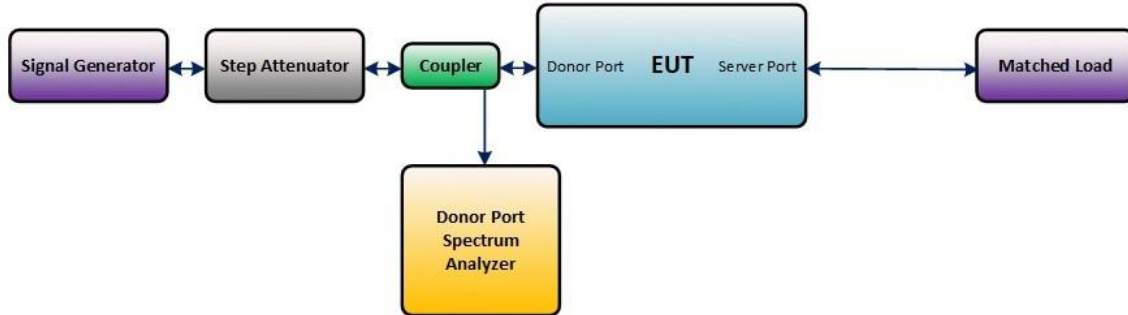
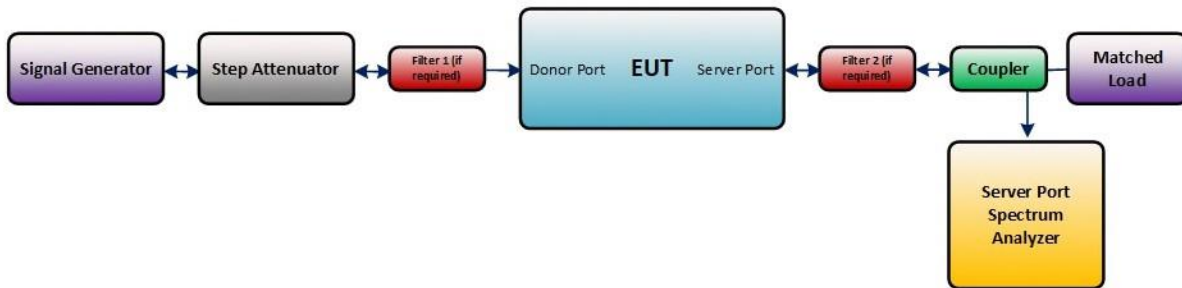


Figure 6 – Maximum downlink noise limit test configuration



Figure 7 – Uplink RSSI-dependent noise limit test configuration**Figure 8 – Downlink RSSI-dependent noise limit test configuration****1.5 Deviations from the Standard**

There were no deviations made during testing from the applicable test standard or test plan.

1.6 EUT Modification Record

The table below details modifications made to the EUT during the test program. The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	As supplied by the manufacturer	-	-

1.7 Test Methods

All measurements contained in this report were conducted as per KDB935210 D04 Provider-Specific Consumer Signal Boosters Compliance Measurements Guidance (April 03, 2020).

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1.8 Test Location

TÜV SÜD America conducted the following tests at our San Diego CA, Test Laboratory's.

Office Address:

TÜV SÜD America Inc. (Mira Mesa)

10040 Mesa Rim Road, San Diego, CA 92121-2912 (32.901268,-117.177681).
Phone: (858) 678 1400 Fax: (858) 546 0364.

TÜV SÜD America Inc. (Rancho Bernardo)

16936 Via Del Campo, San Diego, CA 92127-1708 (33.018644,-117.092409).
Phone: (858) 678 1400 Fax: (858) 546 0364.

1.9 Test Facility Registration

1.9.1 FCC – Designation No.: US1146

TÜV SÜD America Inc. (San Diego), is an accredited test facility with the site description report on file and has met all the requirements specified in §2.948 of the FCC rules. The acceptance letter from the FCC is maintained in our files and the Designation is US1146.

1.9.2 Innovation, Science and Economic Development Canada (ISED) Registration No.: 3067A-1 & 22806-1

The 10m Semi-anechoic chamber of TÜV SÜD America Inc. (San Diego Rancho Bernardo) has been registered by Certification and Engineering Bureau of Innovation, Science and Economic Development Canada for radio equipment testing with Registration No. 3067A-1.

The 3m Semi-anechoic chamber of TÜV SÜD America Inc. (San Diego Mira Mesa) has been registered by Certification and Engineering Bureau of Innovation, Science and Economic Development Canada for radio equipment testing with Registration No. 22806-1.

1.9.3 BSMI – Laboratory Code: SL2-IN-E-028R (US0102)

TÜV Product Service Inc. (San Diego) is a recognized RADIO testing laboratory by the BSMI under the MRA (Mutual Recognition Arrangement) with the United States. Accreditation includes CNS 13438 up to 6GHz.

1.9.4 NCC (National Communications Commission - US0102)

TÜV SÜD America Inc. (San Diego) is listed as a Foreign Recognized Telecommunication Equipment Testing Laboratory and is accredited to ISO/IEC 17025 (A2LA Certificate No.2955.13) which under APEC TEL MRA Phase 1 was designated as a Conformity Assessment Body competent to perform testing of equipment subject to the Technical Regulations covered under its scope of accreditation including RTTE01, PLMN01 and PLMN08 for TTE type of testing and LP0002 for Low-Power RF Device type of testing.



Product Service

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1.9.5 VCCI – Registration No. A-0412 and A-0413

TÜV SÜD America Inc. (San Diego) is a VCCI registered measurement facility which includes radiated field strength measurement, radiated field strength measurement above 1GHz, mains port interference measurement and telecommunication port interference measurement.

1.9.6 RRA – Identification No. US0102

TÜV SÜD America Inc. (San Diego) is National Radio Research Agency (RRA) recognized laboratory under Phase I of the APEC Tel MRA.

1.9.7 OFCA – U.S. Identification No. US0102

TÜV SÜD America Inc. (San Diego) is recognized by Office of the Communications Authority (OFCA) under Appendix B, Phase I of the APEC Tel MRA.



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2 Test Details

2.1 Authorized Frequency Band Verification

2.1.1 Specification Reference

FCC 47 CFR Part 20, Clause 20.21 (e)(3)
KDB935210 D04, Clause 7.1

2.1.2 Standard Applicable

FCC 47 CFR Part 20, Clause 20.21 (e)(3) Frequency Bands:
Consumer Signal Boosters must be designed and manufactured such that they only operate on the frequencies used for the provision of subscriber-based services under parts 22 (Cellular), 24 (Broadband PCS), 27 (AWS-1, 700 MHz Lower A-E Blocks, and 700 MHz Upper C Block), and 90 (Specialized Mobile Radio) of this chapter. The Commission will not certificate any Consumer Signal Boosters for operation on part 90 of this chapter (Specialized Mobile Radio) frequencies until the Commission releases a public notice announcing the date Consumer Signal Boosters may be used in the band.

2.1.3 Equipment Under Test and Modification State

Serial No: 560311000026 / Test Configuration A and B

2.1.4 Date of Test/Initial of test personnel who performed the test

August 02, 2023 /MARG

2.1.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.1.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility.

Ambient Temperature	27.0°C
Relative Humidity	51.5%
ATM Pressure	99.0kPa



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2.1.7 Additional Observations

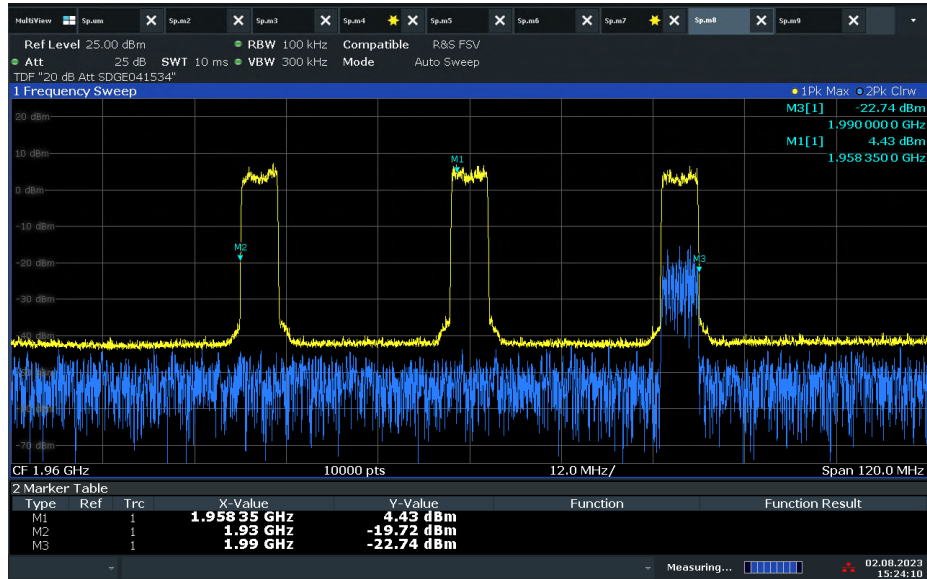
- This is conducted Test. Test procedure is per Section 7.1.1 of KDB935210 (D04 Provider Specific Booster Measurements v02r03). Appropriate offset (line losses) applied.
- The EUT operated in Test Mode, with the gain set to the maximum gain and a minimum bandwidth setting (5MHz).
- Setup the EUT according to Figure 2 or 3 of Section 6.3.3 of KDB935210 as appropriate.
- Both downlink and uplink bands for LTE Band 2, 4, 5, 12, 13, were tested.
- The signal generator was set to transmit a 5MHz LTE signal.
- The transducer factor (TDF) used is from the external attenuators and cables used.
- Frequency Range:

Technology	Band	DL Frequency Range (MHz)	UL Frequency Range (MHz)
LTE	2	1930-1990	1850-1910
LTE	4	2110 - 2155	1710 - 1755
LTE	5	869 - 894	824 - 849
LTE	12	729 – 746	699 – 716
LTE	13	746 - 756	777 - 787
LTE	25	1930 - 1995	1850 - 1915

FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

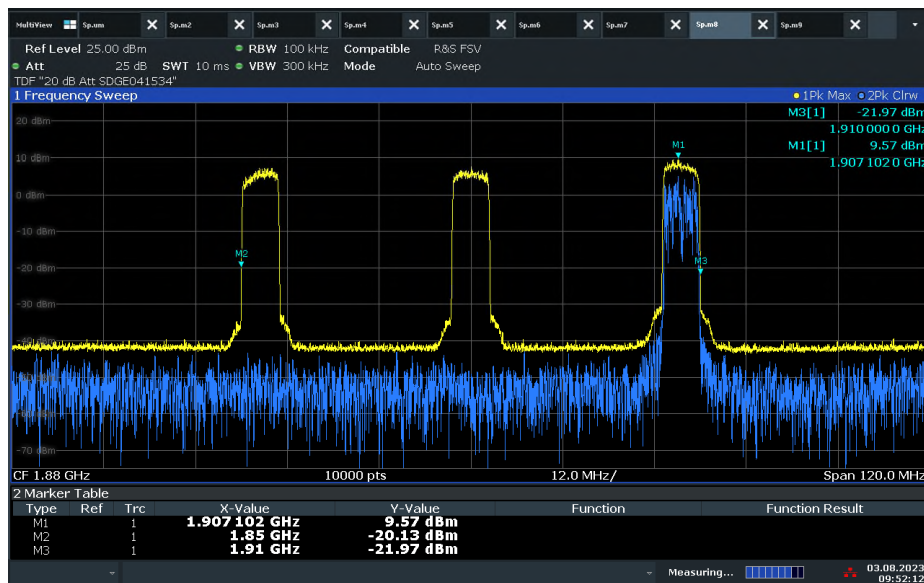
2.1.8 Test Results

LTE Band 2 Downlink Authorized Frequency Range (1930-1990MHz)



15:24:10 02.08.2023

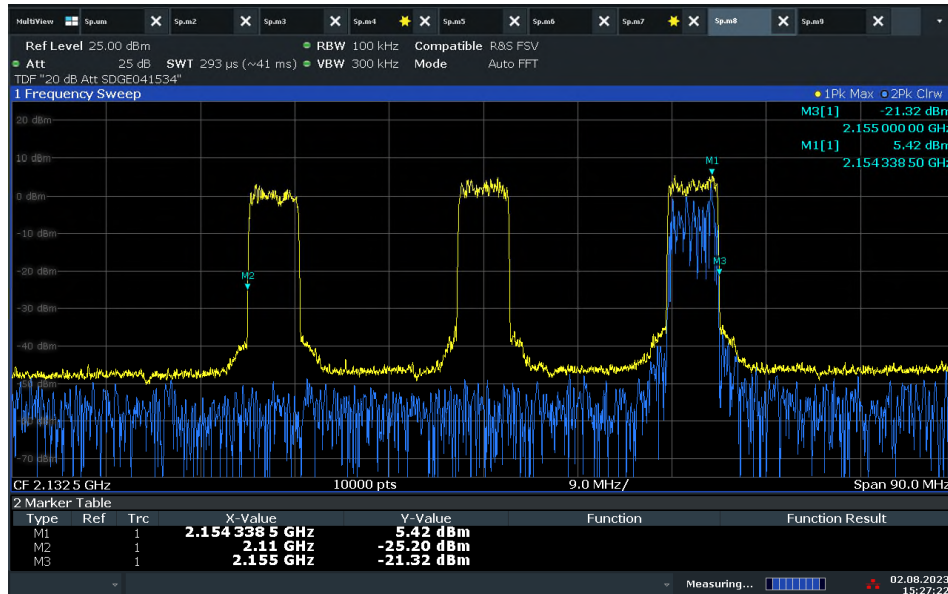
LTE Band 2 Uplink Authorized Frequency Range (1850-1910MHz)



09:52:13 03.08.2023

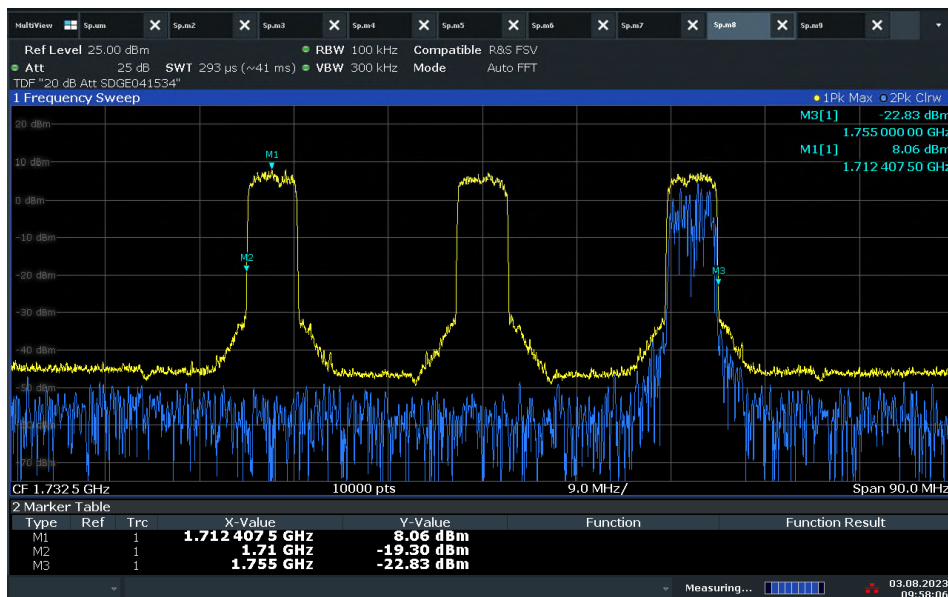
FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

LTE Band 4 Downlink Authorized Frequency Range (2110 – 2155 MHz)



15:27:23 02.08.2023

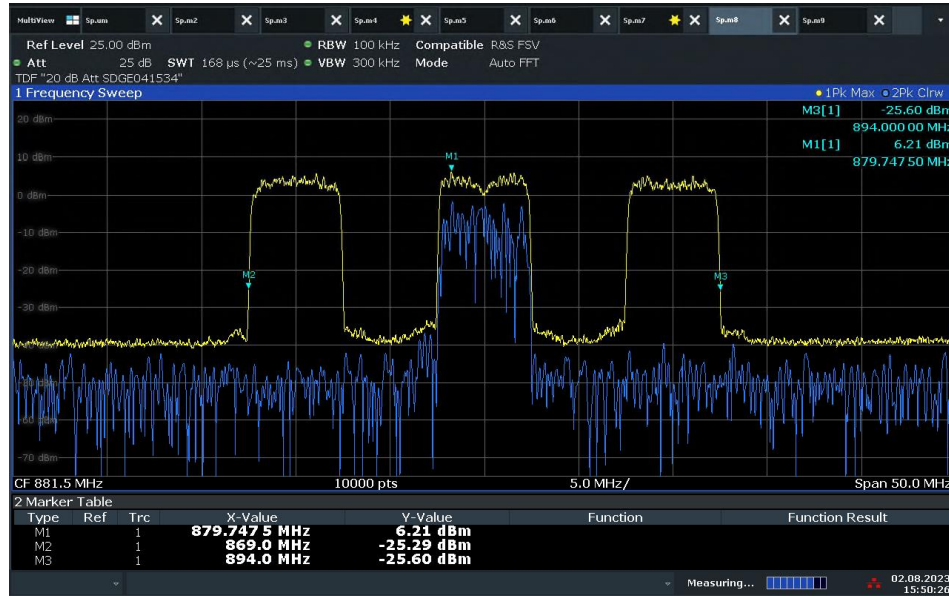
LTE Band 4 Uplink Authorized Frequency Range (1710 – 1755 MHz)



09:58:07 03.08.2023

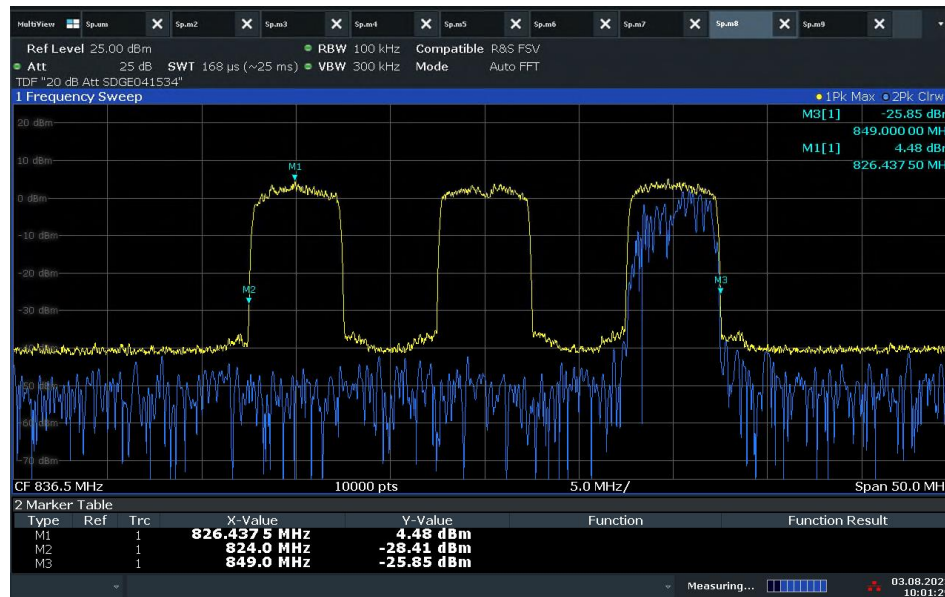
FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

LTE Band 5 Downlink Authorized Frequency Range (869 - 894MHz)



15:50:27 02.08.2023

LTE Band 5 Uplink Authorized Frequency Range (824 - 849MHz)



10:01:30 03.08.2023

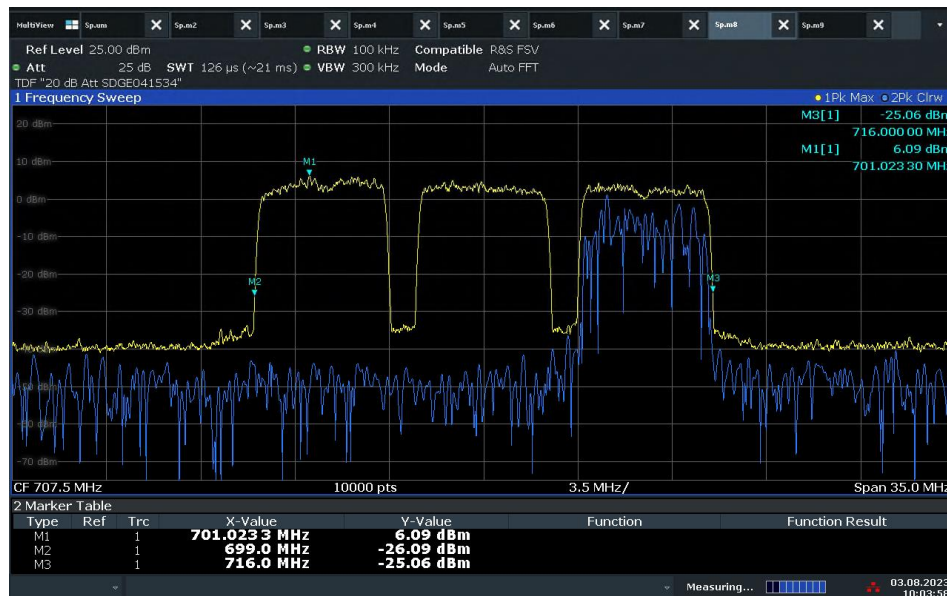
FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

LTE Band 12 Downlink Authorized Frequency Range (729 – 746 MHz)



15:55:11 02.08.2023

LTE Band 12 Uplink Authorized Frequency Range (699 – 716 MHz)



10:03:59 03.08.2023

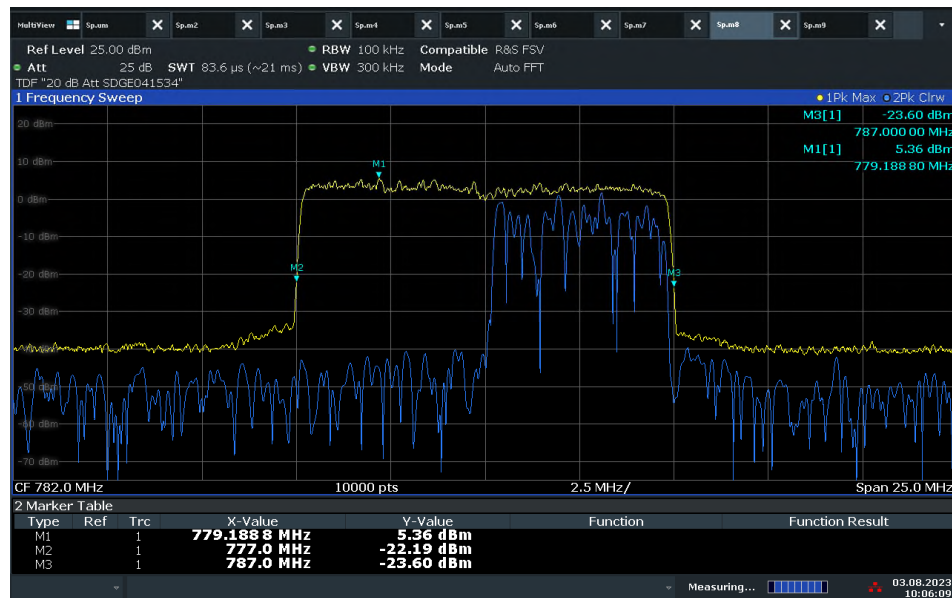
FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

LTE Band 13 Downlink Authorized Frequency Range (746 – 756 MHz)



15:59:22 02.08.2023

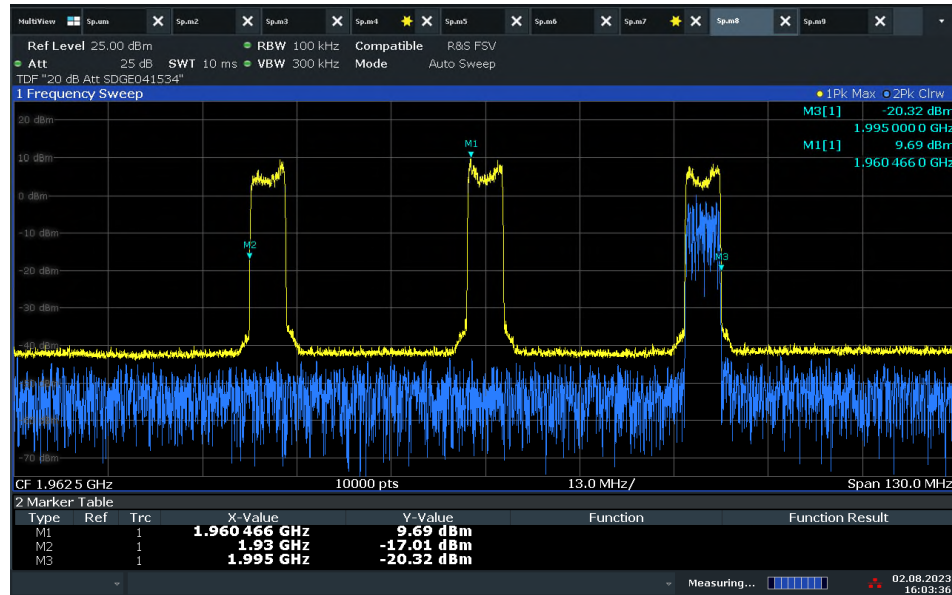
LTE Band 13 Uplink Authorized Frequency Range (777 – 787 MHz)



10:06:10 03.08.2023

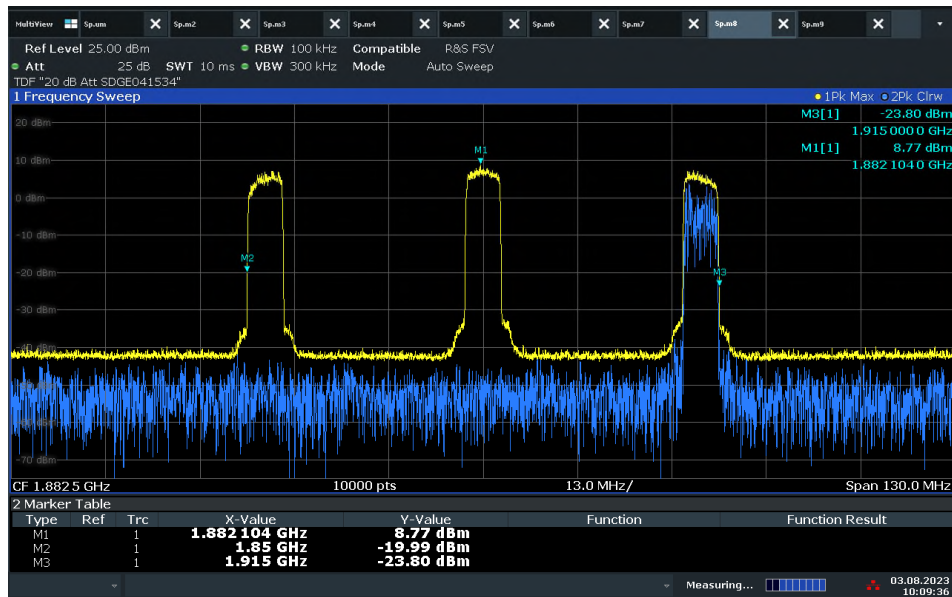
FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

LTE Band 25 Downlink Authorized Frequency Range (1930 – 1995 MHz)



16:03:36 02.08.2023

LTE Band 25 Uplink Authorized Frequency Range (1850 – 1915 MHz)



10:09:36 03.08.2023

FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

2.2 Authorized CMRS Provider

2.2.1 Specification Reference

FCC 47 CFR Part 27, Clause 27.50 (h)(1)
FCC 47 CFR Part 27, Clause 27.50 (a)(1)
RSS-139, Clause 6.5
RSS-195, Clause 5.5

2.2.2 Standard Applicable

FCC 47 CFR Part 20, Clause 20.21 (e)(3) Frequency Bands:
Consumer Signal Boosters must be designed and manufactured such that they only operate on the frequencies used for the provision of subscriber-based services under parts 22 (Cellular), 24 (Broadband PCS), 27 (AWS-1, 700 MHz Lower A-E Blocks, and 700 MHz Upper C Block), and 90 (Specialized Mobile Radio) of this chapter. The Commission will not certificate any Consumer Signal Boosters for operation on part 90 of this chapter (Specialized Mobile Radio) frequencies until the Commission releases a public notice announcing the date Consumer Signal Boosters may be used in the band.

FCC 47 CFR Part 20, Clause 20.21(e)(4) Self Monitoring:
Consumer Signal Boosters must automatically self-monitor their operation to ensure compliance with applicable noise and gain limits and either self-correct or shut down automatically if their operation exceeds those parameters.

2.2.1 Equipment Under Test and Modification State

Serial No: 560311000026/ Test Configuration C and D

2.2.2 Date of Test/Initial of test personnel who performed the test.

August 31 and October 9, 2023/ MARG

2.2.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.4 Environmental Conditions

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility.

Ambient Temperature	24.5 - 26.3°C
Relative Humidity	45.0 - 53.3%
ATM Pressure	98.8 - 99.0kPa

2.2.5 Additional Observations

- This is conducted Test. Test procedure is per Section 7.1.2 of KDB935210 (D04 Provider Specific Booster Measurements v02r03). Appropriate offset (line losses) applied.



FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

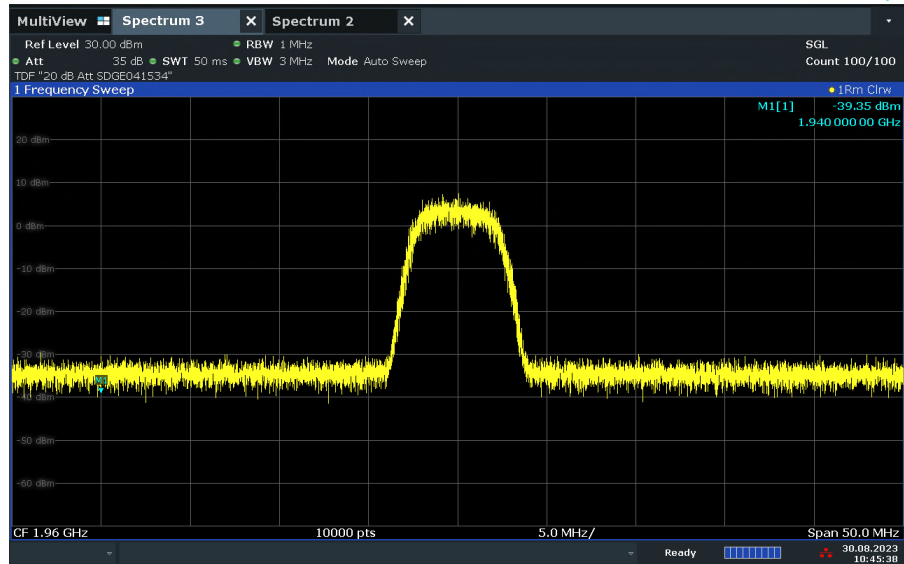
- The EUT operated in Normal Mode, with the gain set to the maximum gain and a minimum bandwidth setting (5MHz).
- Setup the EUT according to Figure 1 of Section 6.3.2 of KDB935210 with the Base Station Simulator transmitting an authorized CMRS provider signal to the booster.
- Evaluations are conducted.
- The transducer factor (TDF) used is from the external attenuators and cables used.
- Per Client request only High Channel for Band 25 was tested.
- Operational uplink and downlink bands for LTE Band 2, 4, 5, 12, and 13 were tested.
- The Base Station Simulator was set to transmit a 5MHz LTE signal.
- The authorized CMRS Provider ID is: 123-456
- Two Non- authorized CMRS Provider signals for each band were verified.
- Frequency Range:

Technology	Band	DL Frequency Range (MHz)	UL Frequency Range (MHz)
LTE	2	1930-1990	1850-1910
LTE	4	2110 - 2155	1710 - 1755
LTE	5	869 - 894	824 - 849
LTE	12	729 – 746	699 – 716
LTE	13	746 - 756	777 - 787
LTE	25	1930 - 1995	1850 - 1915

FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

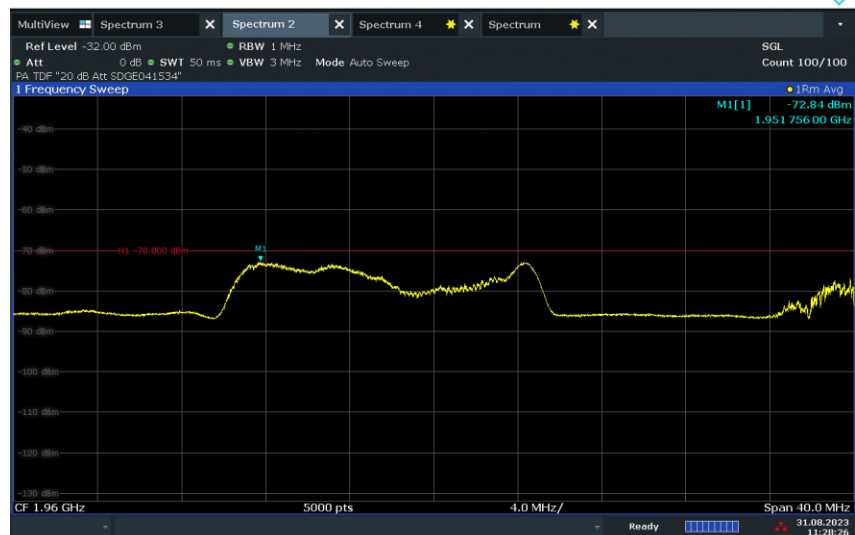
2.2.6 Test Results

LTE Band 2 Downlink Authorized Frequency Range (1930-1990MHz) (MCC/MNC: 123-456)



10:45:39 30.08.2023

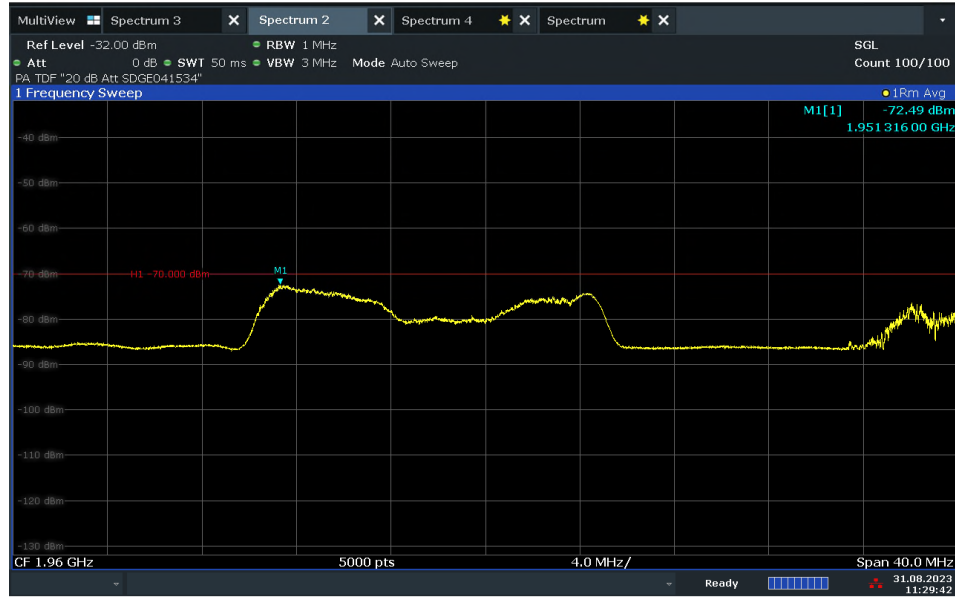
LTE Band 2 Downlink Authorized Frequency Range (1930-1990MHz) (MCC/MNC: 123-619)



11:28:27 31.08.2023

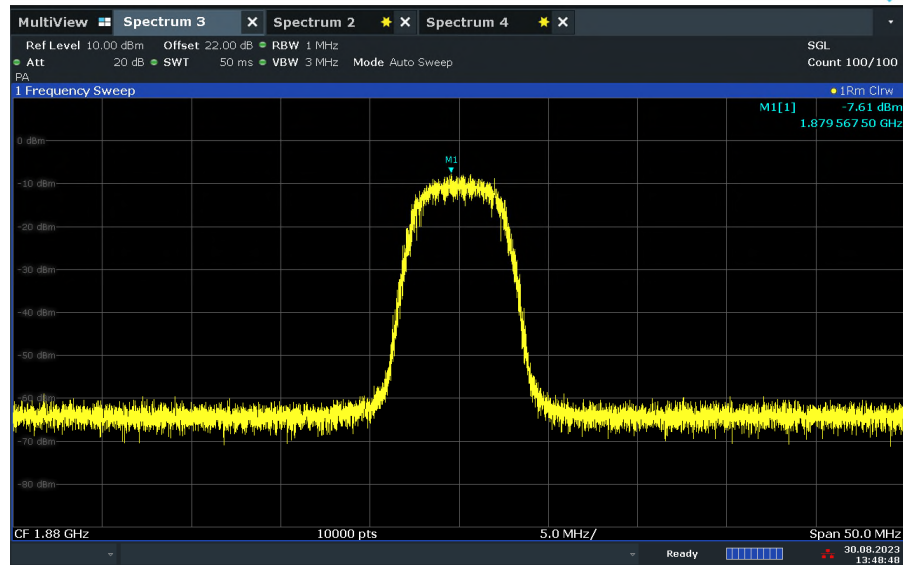
FCC ID: YETG43-BBBE
IC No.: 9298A-G43BBBE

LTE Band 2 Downlink Authorized Frequency Range (1930-1990MHz) (MCC/MNC: 123-916)



11:29:43 31.08.2023

LTE Band 2 Uplink Authorized Frequency Range (1850-1910MHz) (MCC/MNC: 123-456)



13:48:49 30.08.2023