

TEST REPORT

Verified Code: 153953

Report No.:	E202012281203-1-G3	Application No.:	E202012281203
Client:	Cellphone-Mate Inc.dba SureCall		
Address:	48346 Milmont Drive Fremont, CA 94538 United States		
Sample Description:	In-building 2-Way Emergency Radio Communication Enhancement Booster		
Model:	SC-GuardianA2B		
Test Specification:	FCC PART 2--- FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS FCC PART 90-- PRIVATE LAND MOBILE RADIO SERVICES		
Receipt Date:	2021-01-06		
Test Date:	2021-01-07 to 2021-01-20		
Issue Date:	2021-03-03		
Test Result:	Pass		
Prepared By: Test Engineer Xie Jang	Reviewed By: Technical Manager Wu Haoting	Approved By: Manager 	
Other Aspects: FCC ID: RSNPSBG-2BUL			
Note: This report instead the report E202012281203-1-G2, and from the date of issuance of this report, the report which being replaced become invalid.			
Abbreviations: ok / P = passed; fail / F = failed; n.a. / N = not applicable;			
The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.			



DIRECTIONS OF TEST

- 1. This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.**
- 2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.**
- 3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.**

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1 Applicant information

1.1 Client information

Name: Cellphone-Mate Inc.dba SureCall
Address: 48346 Milmont Drive Fremont, CA 94538 United States

1.2 Manufacturer and Factory

Manufacture Name: Cellphone-Mate Inc.dba SureCall
Address: 2nd Floor, Yutian Building North, Yangtian Road, Mabian Industrial Zone, Baoan District, Shenzhen, Guangdong, China, 518101
Factory: Cellphone-Mate Inc. dba SureCall
Address: 2nd Floor, Yutian Building North, Yangtian Road, Mabian Industrial Zone, Baoan District, Shenzhen, Guangdong, China, 518101

2 General description of EUT

2.1 Basic description of EUT

Product Name: In-building 2-Way Emergency Radio Communication Enhancement Booster
Product Model: SC-GuardianA2B
Adding Model: /
Trade Name: SureCall
Power Supply^①: AC 100~240V, 50/60Hz
Typical working voltage: AC 120V, 50/60Hz
Power cord: AC power cord (1m)
Frequency Band^②: 700MHz Band:
Downlink: 758MHz ~ 768MHz, Uplink: 788MHz ~ 798MHz
(Broadband, it is a 10MHz LTE channel)
Downlink: 769MHz ~ 775MHz, Uplink: 799MHz ~ 805MHz
(Narrowband)
800MHz Band:
Downlink: 851MHz ~ 861MHz, Uplink: 806MHz ~ 816MHz
(Narrowband)
Nominal Output Power: Downlink: 33dBm
Uplink: 30dBm
Nominal System Gain: Downlink: 90dB
Uplink: 90dB
EUT Operating Temperature: -20°C to +50°C
Operating Humidity: 5% to 95%
Antenna Type: N/A^④

NOTE 1: ^① Power Supply of The device is AC 100~240V, 50/60 Hz.

NOTE 2: ^② PS Guardband : Downlink 768MHz~769MHz and Uplink 798MHz ~ 799MHz.

NOTE 3: ^③ Downlink 758MHz ~768MHz, Uplink 788MHz ~ 798MHz, and LTE channel Bandwidth is 10MHz.

NOTE 4: ^④ It's an indoor device, The EUT does not provide antenna by Manufacturer's statement, but it is required that the Antenna gain shall not exceed **3 dBi** for Downlink and **6 dBi** for Uplink when the project is used by Manufacturer's statement.

2.2 Test signal modulation description

According to FCC PART 2.202 (g), Table of necessary bandwidths follow:

Signal Description	Modulation type	Channel spacing	Emission Designator
LTE	QPSK	10MHz	G7D
C4FM (P25 Phase 1)	4FSK	12.5kHz	F1E
TETRA	$\pi/4$ DQPSK	25kHz	G1E
Analog FM	FM	25kHz	F3E

2.3 Signal Booster control process

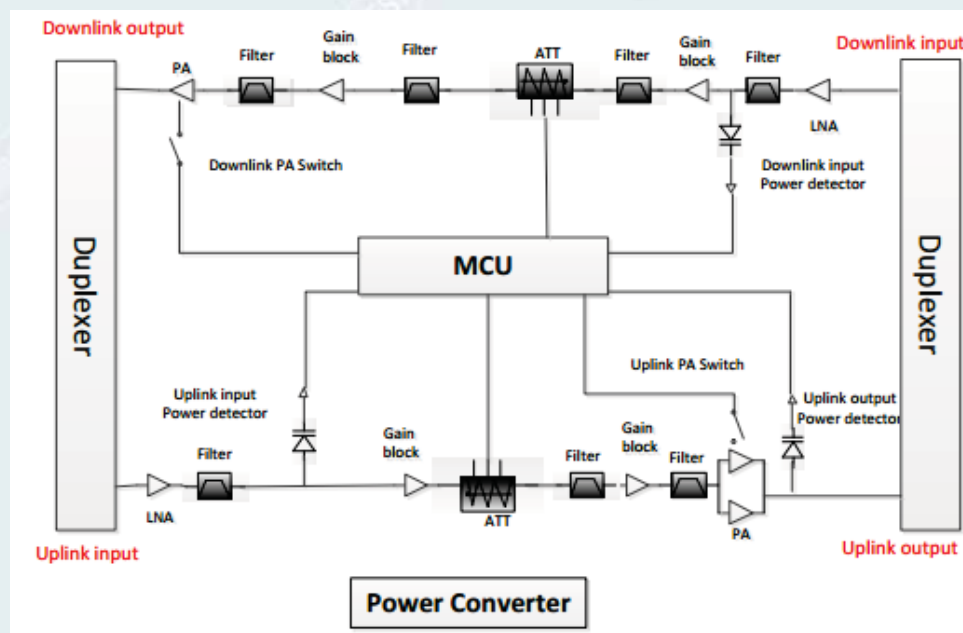


Figure 2-1 System block diagram

The block diagram is composed of the following units:

- Uplink input Power detector;
- Uplink output Power detector;
- Uplink PA switch integrated in PA;
- Downlink input Power detector;
- Downlink PA switch integrated in PA, and so on

3 Related documents

- FCC PART 2 (2020)
- FCC PART 90 (2020)
- KDB 935210 D05 Indus Booster Basic Meas v01r04
- KDB 935210 D02 Signal Boosters Certification v04r02
- KDB 971168 D01 Power Meas License Digital Systems v03r01
- ANSI/TIA 603-E-2016
- ANSI/TIA-102.CAAA-E-2016
- ANSI C63.26-2015

4 Test result summary

Test Item	Test Requirements	Test Method	Reported	N/A
Test Frequency	KDB 935210 D02 APPENDIX D/Table D.3, FCC PART 2.1057, ANSI C63.26-2015 Clause 5.1.2	/	Reported only	
Input Signals	KDB 935210 D05 clause 4.1	/	Reported only	
AGC Threshold	KDB 935210 D05 clause 4.2	/	Reported only	
Out of Band Rejection	KDB 935210 D05 clause 4.3 FCC PART 90.219 (a) FCC PART 90.219 (d)((7))	KDB 935210 D05 clause 4.3	☒	
Input VS output Comparison	KDB 935210 D05 clause 4.4 FCC PART 2.1049(c) FCC PART 90.219 (e)(4)(ii)	KDB 935210 D05 clause 4.4	☒	
Mean power and amplifier/booster gain	KDB 935210 D05 clause 4.5 FCC PART 90.219 (e)(1)	KDB 935210 D05 clause 4.5	☒	
Noise Figure	KDB 935210 D05 clause 4.6 FCC PART 90.219 (e)(2)	KDB 935210 D05 clause 4.6	☒	
Out-of-band/out-of-block emissions	KDB 935210 D05 clause 4.7.2 FCC PART 2.1051 FCC PART 90.219 (d)(6)(i) FCC PART 90.219 (e)(3)	KDB 935210 D05 clause 4.7.2	☒	
Conducted spurious emissions	KDB 935210 D05 clause 4.7.3 FCC PART 2.1051 FCC PART 90.219 (e)(3)	KDB 935210 D05 clause 4.7.3	☒	
Frequency stability	KDB 935210 D05 clause 4.8 FCC PART 2 1055(a)(2) FCC PART 90.213 and 90.539 FCC PART 90.219 (e)(4)(i)	KDB 935210 D05/4.8 FCC PART 2 1055(b)	☒	
Radiated spurious emissions	KDB 935210 D05 clause 4.9 FCC PART 2.1053 FCC PART 90.219 (e)(3)	KDB 935210 D05 clause 4.9 ANSI C63.26-2015/5.5 ANSI/TIA 603-E-2016 ANSI/TIA-102.CAAA-E-2016	☒	

NOTE: ☒ mean that test needs to be performed.

5 About Signal Booster

According to the basic information of EUT and FCC part 90.219 (a) and KDB 935210 D02 APPENDIX A3.1 rules, this EUT belongs to PART 90 class B Industrial signal booster and it is a non SMR

5.1 KDB 935210 D02 APPENDIX A3.1

A.3.1 Signal Booster (Section 90.219)

A Signal Booster (Section 90.219) is a device or system that automatically receives, amplifies, and retransmits signals from wireless stations into and out of building interiors, tunnels, shielded outdoor areas and other locations where these signals would otherwise be too weak for reliable communications. Signal booster systems may contain both Class A and Class B signal boosters as components. [Section 90.219(a)]

All **Section 90.219 boosters** are a type of Industrial Signal Booster, and are classified as either **Class A boosters** (narrowband) or **Class B boosters** (wideband). [R11] [Order, ¶ 15]

Note also that Consumer Signal Boosters are not defined for PLMRS or PSRS because licensees are considered to operate private services. Part 90 PLMR licensees typically obtain authorizations for individual narrowband channels or groups of channels to satisfy their own communication needs. Moreover, many Part 90 channels are interleaved and a licensee's channels may not be adjacent to one another, which presents unique considerations for signal boosters used with Part 90 PLMR services. [Order, ¶ 144]

a) Class A signal booster: A signal booster designed to retransmit signals on one or more specific channels. A signal booster is deemed to be a Class A signal booster if none of its passbands exceed 75 kHz. [Section 90.219(a)]

b) Class B signal booster: A signal booster designed to retransmit any signals within a wide frequency band. A signal booster is deemed to be a Class B signal booster if it has a passband that exceeds 75 kHz. [Section 90.219(a)]

Class B signal boosters may be deployed only at fixed locations; mobile operation of Class B signal boosters is prohibited (after November 1, 2014). [Section 90.219(d)(4)]

Except for signal boosters incorporating distributed antenna systems (DAS) and installed in buildings, the passband of a Class B booster shall not encompass both commercial services (such as ESMR and Cellular Radiotelephone) and Part 90 Land Mobile and Public Safety Services. [Section 90.219(d)(7)]

5.2 FCC part 90.219 (a) Definitions

§90.219 Use of signal boosters.

This section contains technical and operational rules allowing the use of signal boosters in the Private Land Mobile Radio Services (PLMRS). Rules for signal booster operation in the Commercial Mobile Radio Services under part 90 are found in §20.21 of this chapter.

<https://www.ecfr.gov/cgi-bin/text-idx?SID=2097cbcdce8abb94d012e95530a44e05&mc=true&node=pt47.5.90&rgn=div5>

2020/6/15

Electronic Code of Federal Regulations (eCFR)

(a) *Definitions.* The definitions in this paragraph apply only to the rules in this section.

Class A signal booster. A signal booster designed to retransmit signals on one or more specific channels. A signal booster is deemed to be a Class A signal booster if none of its passbands exceed 75 kHz.

Class B signal booster. A signal booster designed to retransmit any signals within a wide frequency band. A signal booster is deemed to be a Class B signal booster if it has a passband that exceeds 75 kHz.

6 Test modes

Test modes	TX mode: “OUTSIDE” port of the EUT is connected to the signal generator, “INSIDE” port is connected to the spectrum analyzer through attenuator, and the power of the EUT is turned on and signal is sent. RX mode: “INSIDE” port of the EUT is connected to the signal generator, “OUTSIDE” port is connected to the spectrum analyzer through attenuator, and the power of the EUT is turned on and signal is sent.
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7 Laboratory

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test Co., Ltd.

Add. : No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China.

P.C. : 518110

Tel : 0755-61180008

Fax : 0755-61180008

8 Measurements uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	30MHz~1000MHz	4.3dB
	Horizontal	1GHz~18GHz	5.6dB
	Vertical	30MHz~1000MHz	4.3dB
	Vertical	1GHz~18GHz	5.6dB

Measurement	Uncertainty
RF frequency	$\pm 6 \times 10^{-6}$
RF power conducted	$\pm 0.78\text{dB}$
Occupied channel bandwidth	$\pm 0.4\%$
Unwanted emission, conducted	$\pm 0.68\text{dB}$
Humidity	$\pm 6\%$
Temperature	$\pm 2^{\circ}\text{C}$

Note: This uncertainty represents an expanded uncertainty factor of $k=2$.

9 Equipments used during test

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Vector Signal Generator	Agilent	N5182A	MY50142870	2021-10-08
Signal Generator	Agilent	E4438C	MY49072645	2021-03-12
Vector Signal Generator	R&S	SMBV 100A	260996	2021-02-17
Signal Generator	R&S	SMB 100A	109290	2022-01-11
Spectrum analyzer	R&S	FSV30	104381	2021-03-14
Spectrum analyzer	R&S	FSV30	103264	2021-11-23
Spectrum analyzer	Agilent	N9020A	MY51285942	2021-06-29
Power splitter	WEINSCHEL	1580	SL767	2021-03-18
SNS Series Noise Source	Agilent	346B	MY44422241	2021-06-02
Frequency meter	Suin	SS7300	6E5042026	2021-04-27
Voltage regulator	Qingdaoqingzhi	TDGC2J-5	GRGTAG2013026	/
Digital multimeter	Fluke	F15B+	44750292WS	2021-02-13
Isolator	China guangshun	TG101A 700~800	121003889	/
Attenuation	Shanghaihua xiang	DTS50-40dB-4G	11042234	/
Temp & Humidity chamber	HOSON	HS01060SDF	191008401	2021-10-15
Radiated emissions				
Receiver	R&S	ESU26	100526	2021-09-22
Receiver	R&S	ESU40	100106	2021-04-07
Bi-log Antenna	Schwarzbeck	VULB 9160	9160-3402	2021-10-08
Bi-Log Antenna	ETS-lindgren	3142C	75971	2021-12-18
Horn Antenna	Schwarzbeck	BBHA9120	D286	2021-10-08
Horn Antenna	ETS	3117 C	00075824	2021-02-10
Broadband Amplifiers	Schwarzbeck	BBV9718	00246	2021-09-22
Broadband Amplifiers	Schwarzbeck	BBV9718	9718-276	2021-03-30
Semi-anechoic chamber	ETS-lindgren	966(RFD-F/A-100)	3730	2021-10-01

10 Radio technical requirement specification

10.1 Test Frequencies

requirements: KDB 935210 D02 APPENDIX D/Table D.3
FCC PART 2.1057
ANSI C63.26-2015 Clause 5.1.2

10.1.1 Requirements

(1) FCC PART 2.1057

§2.1057 Frequency spectrum to be investigated.

(a) In all of the measurements set forth in §2.1051 and 2.1053, the spectrum shall be investigated from the lowest radio frequency signal generated in the equipment, without going below 9 kHz, up to at least the frequency shown below:

(1) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the equipment operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the equipment operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower.

(b) Particular attention should be paid to harmonics and subharmonics of the carrier frequency as well as to those frequencies removed from the carrier by multiples of the oscillator frequency. Radiation at the frequencies of multiplier stages should also be checked.

(c) The amplitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be reported.

(d) Unless otherwise specified, measurements above 40 GHz shall be performed using a minimum resolution bandwidth of 1 MHz.

(2) ANSI C63.26-2015 Clause 5.1.2

5.1.2 Number of fundamental frequencies to be tested in EUT transmit band

5.1.2.1 General requirement

Measurements of transmitters shall be performed and, if required, reported for each frequency band in which the EUT can be operated with the device transmitting at the number of frequencies in each band specified in Table 2.

²⁴ See 47 CFR 2.1057.

ANSI C63.26-2015
American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

Table 2—Number of frequencies to be tested

Frequency range over which EUT operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

(3) KDB 935210 D02 APPENDIX D/Table D.3

Section 90.219 purposes (for info only – see rules for details, also KDB Publication 634817 [R14])			
Fl. (MHz)	–	Fl. (MHz)	Rule(s)
150	–	150.05	Federal (non-FCC)
150.05	–	150.8	90.265
150.8	–	162.0125	90
162.0125	–	173.2	90.265
173.2	–	173.4	90
173.4	–	174	Federal (non-FCC)
406.1	–	420	90.265
420	–	421	ULS presently shows no licensees for 420-420.9 MHz
421	–	430	90
430	–	450	Not available under 90 Subparts B, C and mobile service
450	–	470	90 (selected bands)
470	–	512	90
746	–	757	27.5(b)(3) Block C; 90 not available
757	–	758	27.5(b)(1) Block A; 90 not available
758	–	768	90-R, Public Safety (PS) Broadband (FirstNet)
768	–	769	PS Guardband
769	–	775	PS Narrowband
775	–	776	27.5(b)(2) Block B; 90 not available
776	–	787	27.5(b)(3) Block C; 90 not available
787	–	788	27.5(b)(1) Block A; 90 not available
788	–	798	90-R, Public Safety (PS) Broadband (FirstNet)
798	–	799	PS Guardband
799	–	805	PS Narrowband
805	–	806	27.5(b)(2) Block B; 90 not available
806	–	809	90 NP SPAC (PS) [90.617(a)(1)]
809	–	815	90 Interleaved PS; B/ILT; SMR [90.614(a); 90.613 ch. nos. 1-470] ^a
815	–	816	90 Expansion B/ILT; SMR [90.614(a); 90.613 ch. nos. 470-550] ^a
816	–	817	90 Guardband
817	–	824	CMRS 90 ESMR [90.614(b); 90.613 ch. nos. 551-830]
824	–	849	22-H; 90 not available
849	–	851	22-G; 90 not available
851	–	854	90 NP SPAC (PS) [90.617(a)(1)]
854	–	860	90 Interleaved PS; B/ILT; SMR [90.614(a); 90.613 ch. nos. 1-470] ^a
860	–	861	90 Expansion B/ILT; SMR [90.614(a); 90.613 ch. nos. 470-550] ^a
861	–	862	90 Guardband
862	–	869	CMRS 90 ESMR [90.614(b); 90.613 ch. nos. 551-830]
869	–	894	22-H; 90 not available
894	–	896	22-G; 90 not available
896	–	901	90 Interleaved B/ILT [90.617(c)] and SMR [90.617(f)]; UL (donor)
901	–	902	24-D; 90 not available
928	–	929	101; 90 not available ^{b,c}
929	–	930	90 ^{a,*}
930	–	931	24-D; 90 not available
931	–	932	22-E; 90 not available
932	–	935	101; 90 not available
935	–	940	90 Interleaved B/ILT [90.617(c)] and SMR [90.617(f)]; DL (server)

The EUT will utilize bands:

700MHz Band:

Downlink: 758MHz ~ 768MHz, Uplink: 788MHz ~ 798MHz

Downlink: 769MHz ~ 775MHz, Uplink: 799MHz ~ 805MHz

800MHz Band:

Downlink: 851MHz ~ 861MHz, Uplink: 806MHz ~ 816MHz

10.1.2 Result:

This project is only reported and checked.

10.2 Input Signals

requirements: KDB 935210 D05 clause 4.1

10.2.1 Requirements

KDB 935210 D05 clause 4.1

The procedures in this clause are specific to EUTs intended for operating in the Private Land Mobile Radio Services (PLMRS) and Public Safety Radio Services (PSRS)⁵, which are governed under the provisions and requirements of the Part 90 rules (i.e., Section 90.219 applies).

Table 1 depicts signal types associated with PLMRS operations, which are to be considered as test signals to be used in performing compliance testing on PLMRS amplifiers, repeaters, and industrial boosters. Not all of the procedures in this clause will require using each of the signals listed in Table 1, because for

⁵ As explained in § 90.16, Public Safety Radio Services is part of the Public Safety Radio Pool, also known as the Public Safety Pool.

many EUTs a CW tone can adequately model the narrowband signals typically encountered within these services. For EUTs supporting digitally modulated signals, the intended operating signal types should be tested (e.g., P25 Phase 1, P25 Phase 2, TETRA, etc.), especially for PSRS devices. Devices intended for use in 700 MHz Public Safety Broadband spectrum shall be tested using a representative band-limited AWGN signal (99 % OBW of 4.1 MHz) or the applicable signal type (e.g., LTE).

Table 1—Test signals for PLMRS devices

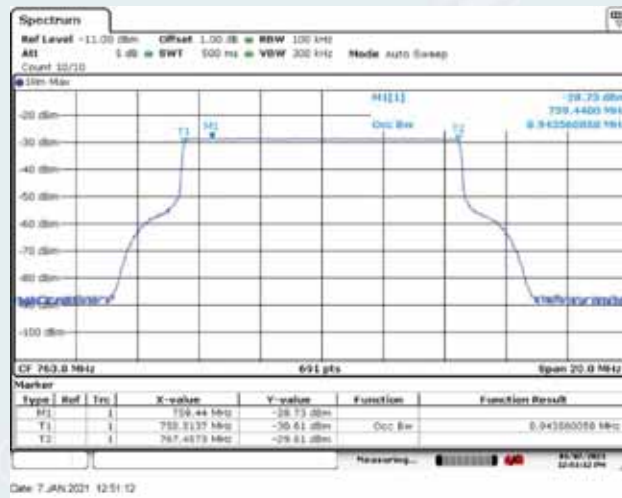
Emission Designator	Modulation	Occupied Bandwidth	Channel Bandwidth	Audio Frequency
16K0F3E	FM	16 kHz	25 kHz	1 kHz
11K3F3E	FM	11.3 kHz	12.5 kHz	1 kHz
4K00F1E	FM	4 kHz	6.25 kHz	1 kHz
N/A	CW	N/A	N/A	N/A

10.2.2 Result:

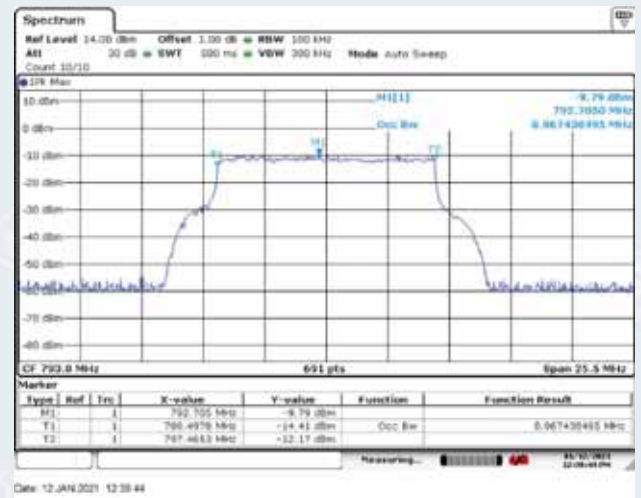
This project is only reported and checked.

10.2.3 Input Signals screenshot

10.2.3.1.1 LTE mode

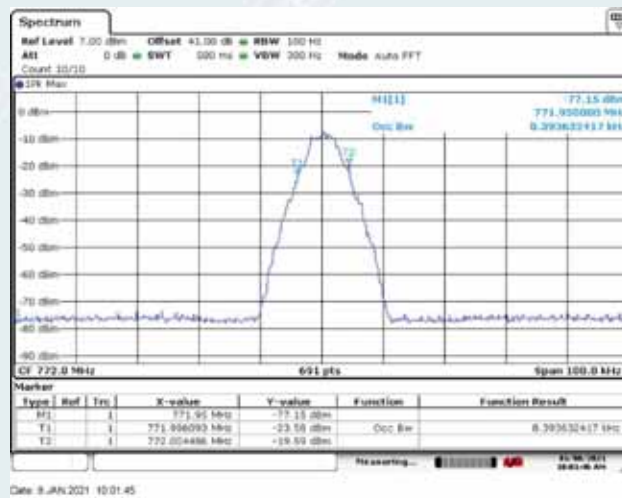


Downlink Frequency: 763MHz

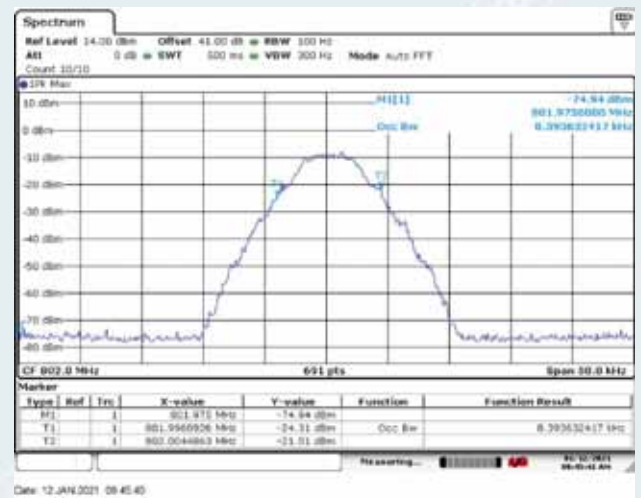


Uplink Frequency: 793MHz

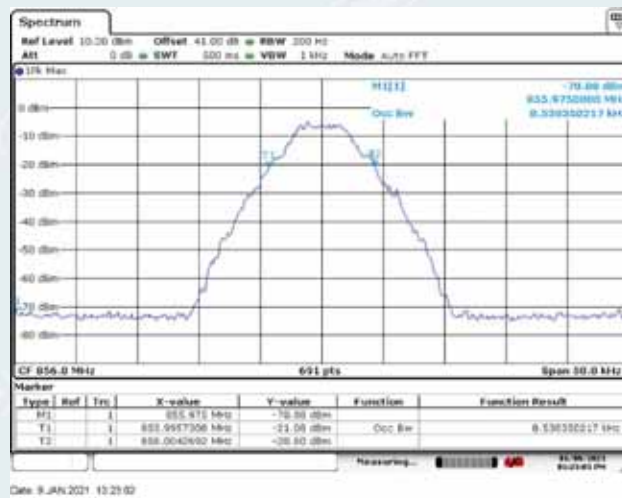
10.2.3.1.2 C4FM mode



Downlink Frequency: 772.0MHz



Uplink Frequency: 802.0MHz

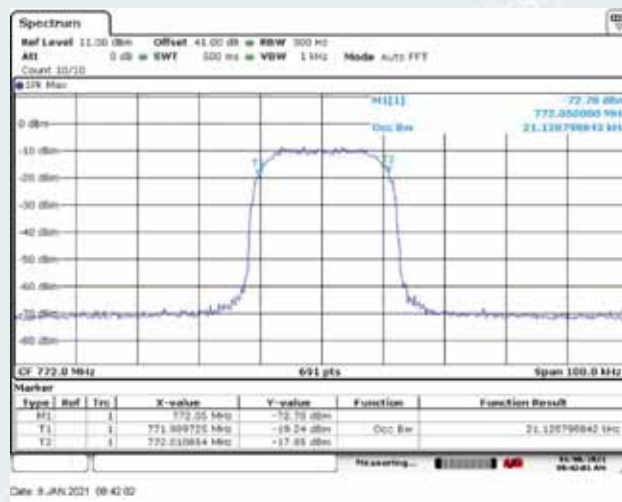


Downlink Frequency: 856.0MHz

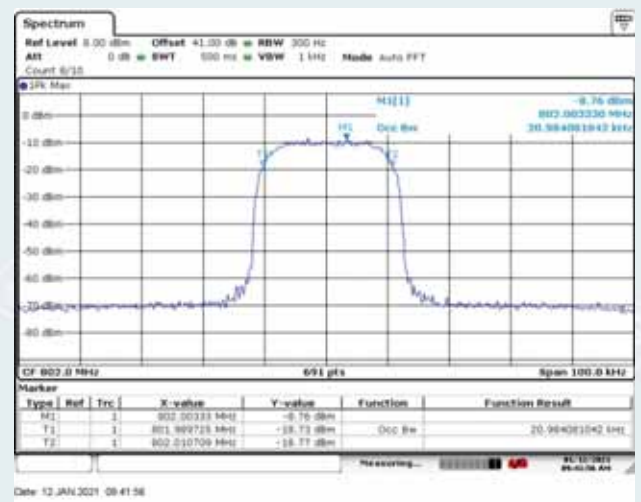


Uplink Frequency: 811.0MHz

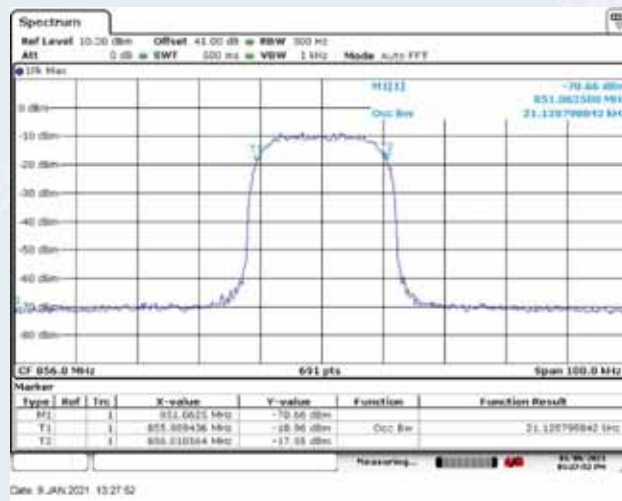
10.2.3.1.3 TETRA mode



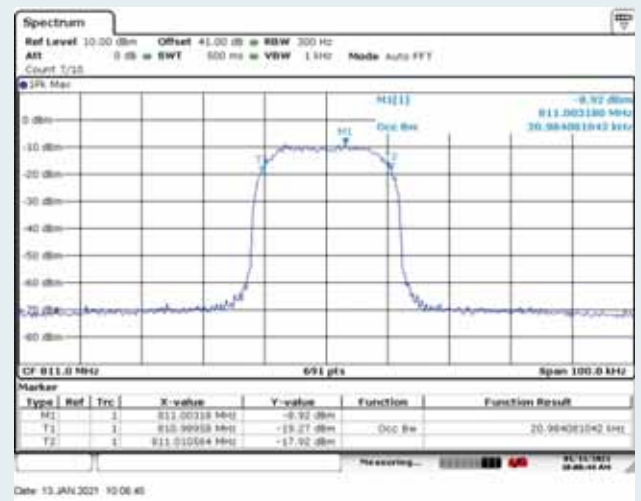
Downlink Frequency: 772.0MHz



Uplink Frequency: 802.0MHz

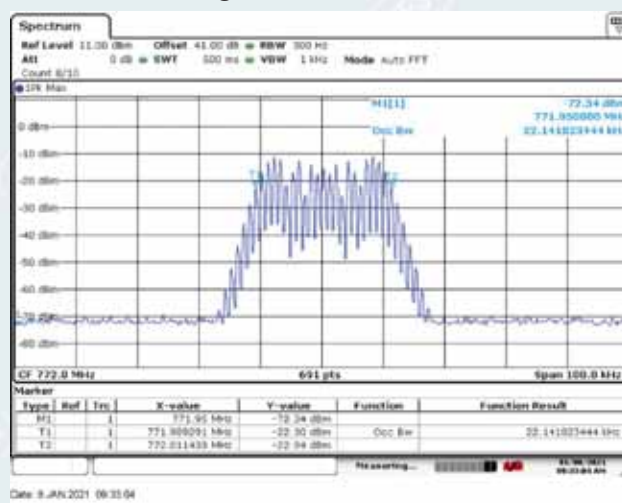


Downlink Frequency: 856.0MHz

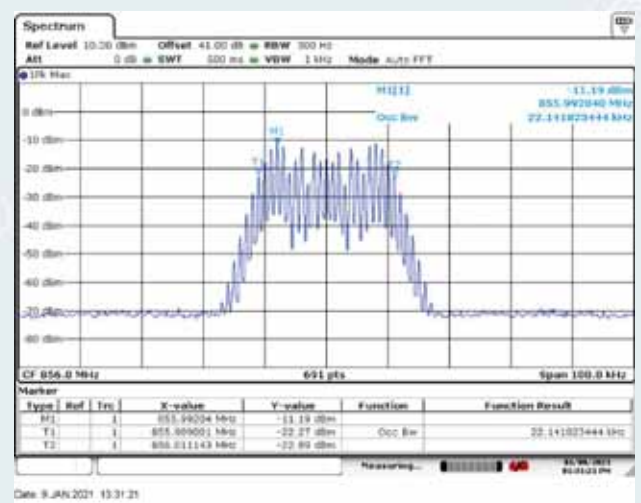


Uplink Frequency: 811.0MHz

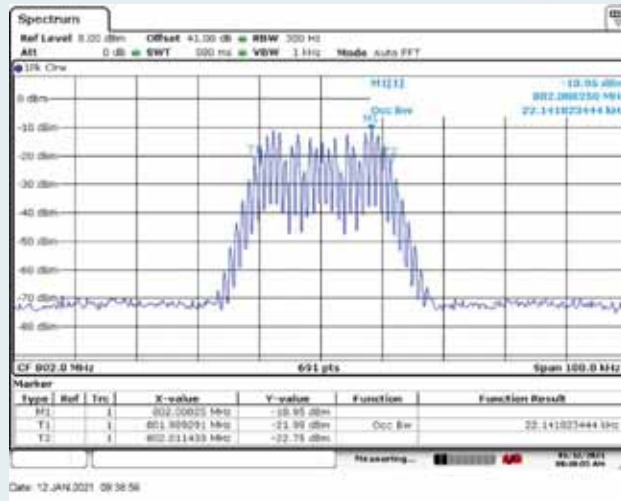
10.2.3.1.4 Analog FM mode



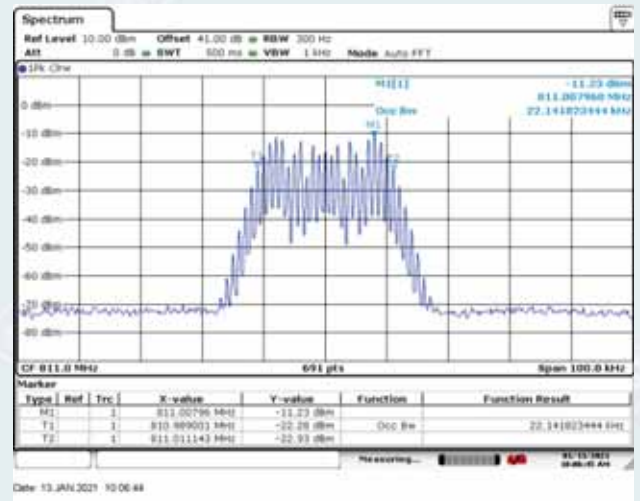
Downlink Frequency: 772.0MHz



Uplink Frequency: 802.0MHz



Downlink Frequency: 856.0MHz



Uplink Frequency: 811.0MHz

10.3 AGC Threshold

requirements: KDB 935210 D05 clause 4.2

Test Method: KDB 935210 D05 clause 3.2

10.3.1 Requirements

Testing at and above the AGC threshold will be required.⁶ The AGC threshold shall be determined by applying the procedure of 3.2, but with the signal generator configured to produce a test signal defined in Table 1, a CW input signal, or a digitally modulated signal, consistent with the discussion about signal types in 4.1.

10.3.2 Test configuration

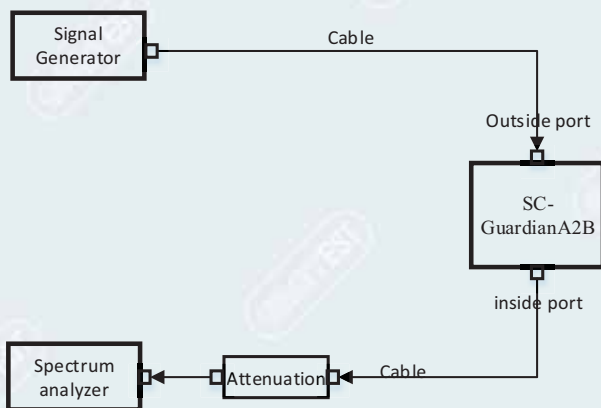


Figure 10.3-1 Downlink connection diagram

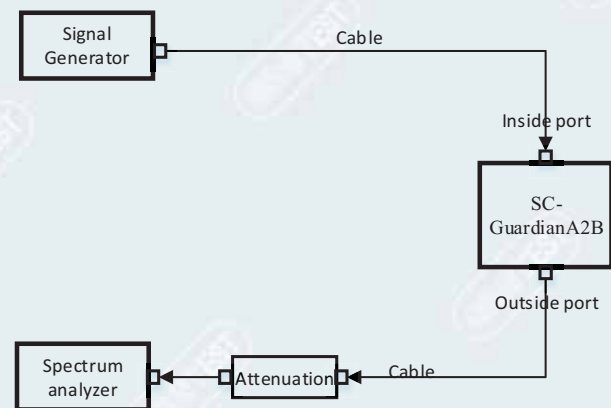


Figure 10.3-2 Uplink connection diagram

10.3.3 Test procedures

3.2 Measuring AGC threshold level

The AGC threshold is to be determined as follows.³

In the case of fiber-optic distribution systems, the RF input port of the equipment under test (EUT) refers to the RF input of the supporting equipment RF to optical converter; see also descriptions and diagrams for typical DAS booster systems in KDB Publication 935210 D02 [R7].

Devices intended to be directly connected to an RF source (donor port) only need to be evaluated for any over-the-air transmit paths.

- Connect a signal generator to the input of the EUT.
- Connect a spectrum analyzer or power meter to the output of the EUT using appropriate attenuation as necessary.
- The signal generator should initially be configured to produce either of the required test signals (i.e., broadband or narrowband).
- Set the signal generator frequency to the center frequency of the EUT operating band.
- While monitoring the output power of the EUT, measured using the methods of 3.5.3 or 3.5.4, increase the input level until a 1 dB increase in the input signal power no longer causes a 1 dB increase in the output signal power.
- Record this level as the AGC threshold level.
- Repeat the procedure with the remaining test signal.

10.3.4 Test results

Test Date (yy-mm-dd): 2021-01-07

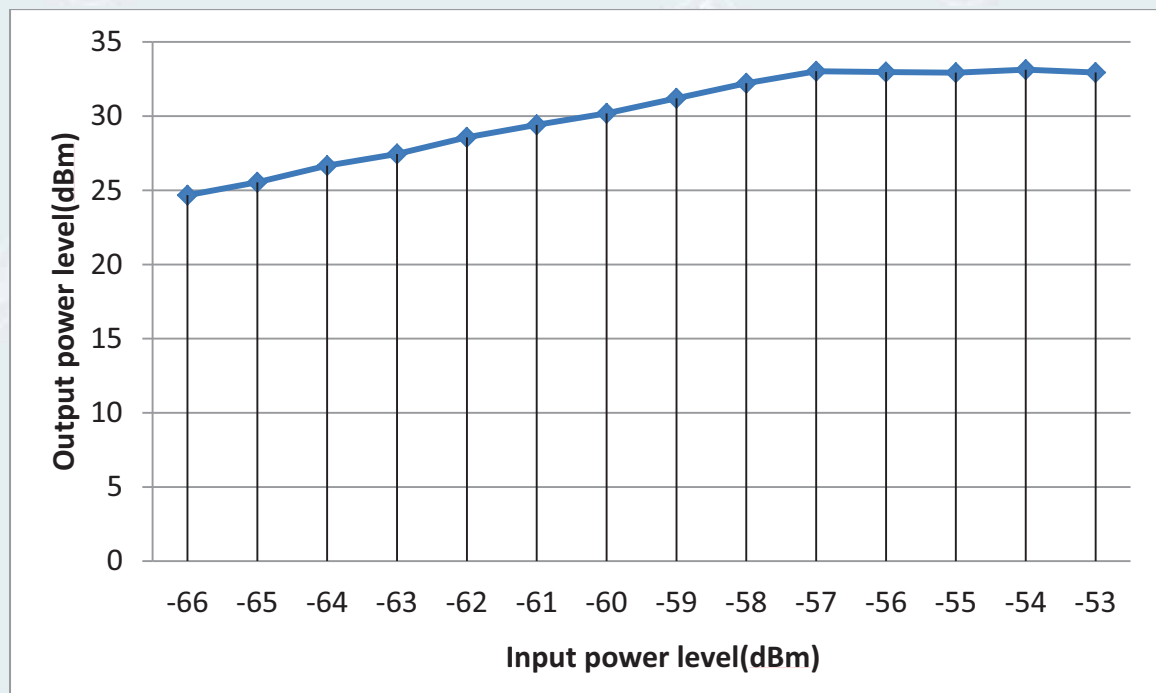
Normal condition: Temp: 22.9°C, Humid:35%, Atmospheric Pressure:101kpa

Supply Voltage: AC 120V, 60Hz

10.3.4.1 700MHz Band

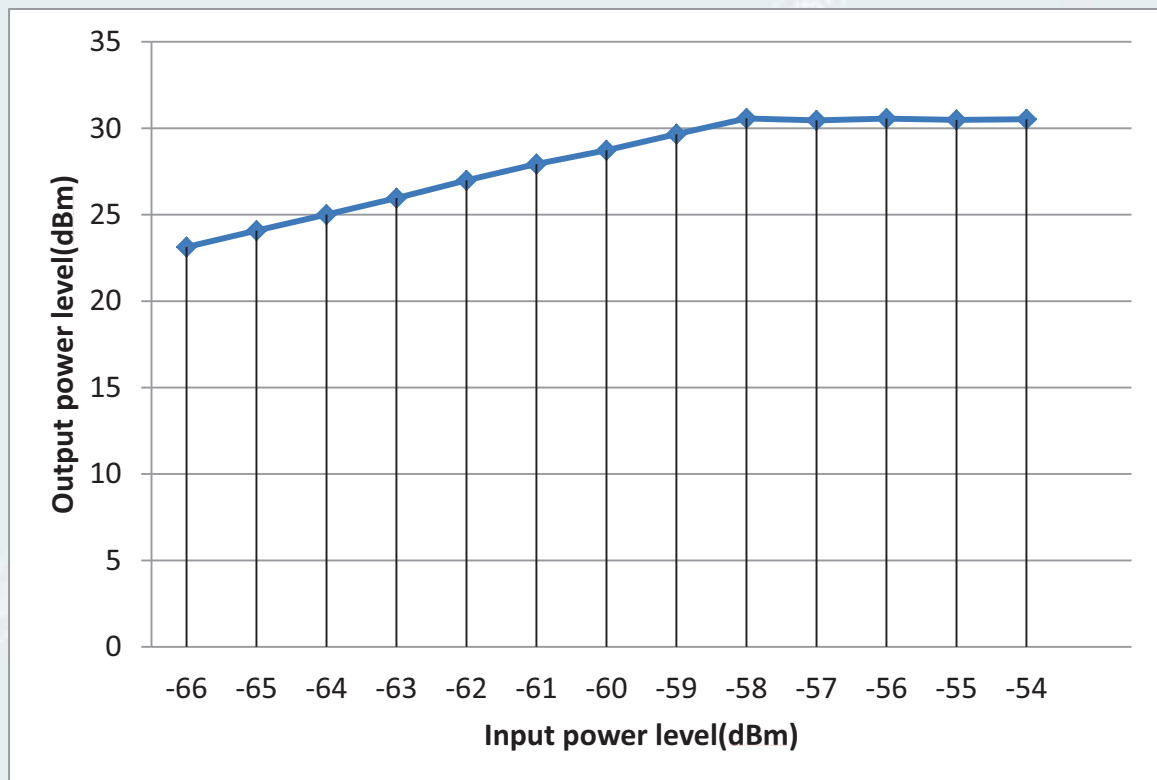
10.3.4.1.1 Frequency range: Downlink: 758MHz~768MHz

Test frequency	Input power (dBm)	Cable loss (dB)	Corrected Input power (dBm)	Corrected Output power (dBm)
Downlink 763MHz	-65.0	1.0	-66.0	24.67
	-64.0	1.0	-65.0	25.54
	-63.0	1.0	-64.0	26.66
	-62.0	1.0	-63.0	27.45
	-61.0	1.0	-62.0	28.57
	-60.0	1.0	-61.0	29.41
	-59.0	1.0	-60.0	30.19
	-58.0	1.0	-59.0	31.20
	-57.0	1.0	-58.0	32.22
	-56.0	1.0	-57.0	33.03
	-55.0	1.0	-56.0	32.97
	-54.0	1.0	-55.0	32.93
	-53.0	1.0	-54.0	33.13
	-52.0	1.0	-53.0	32.94



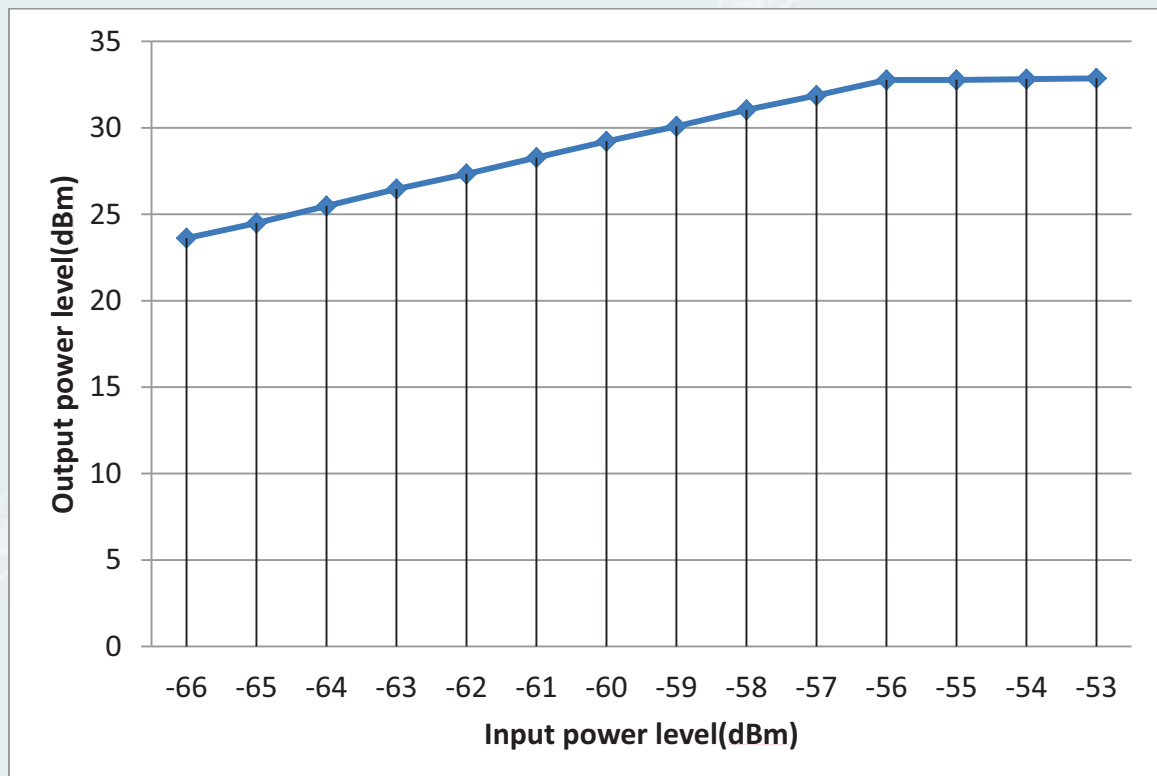
10.3.4.1.2 Frequency range: Uplink: 788MHz~798MHz

Test frequency	Input power (dBm)	Cable loss (dB)	Corrected Input power (dBm)	Corrected Output power (dBm)
Uplink 793MHz	-65.0	1.0	-66.0	23.13
	-64.0	1.0	-65.0	24.08
	-63.0	1.0	-64.0	25.01
	-62.0	1.0	-63.0	25.96
	-61.0	1.0	-62.0	26.99
	-60.0	1.0	-61.0	27.93
	-59.0	1.0	-60.0	28.73
	-58.0	1.0	-59.0	29.66
	-57.0	1.0	-58.0	30.57
	-56.0	1.0	-57.0	30.46
	-55.0	1.0	-56.0	30.56
	-54.0	1.0	-55.0	30.48
	-53.0	1.0	-54.0	30.52



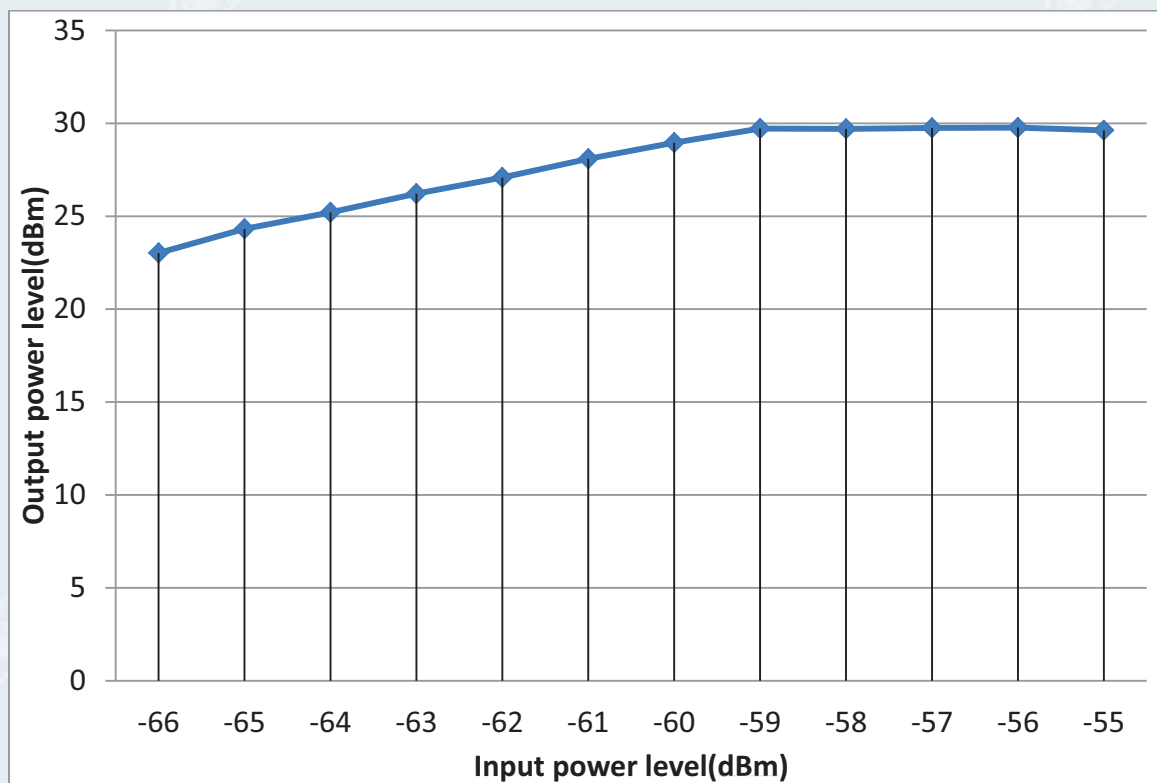
10.3.4.1.3 Frequency range: Downlink: 769MHz~775MHz

Test frequency	Input power (dBm)	Cable loss (dB)	Corrected Input power (dBm)	Corrected Output power (dBm)
Downlink 772MHz	-65.0	1.0	-66.0	23.62
	-64.0	1.0	-65.0	24.49
	-63.0	1.0	-64.0	25.48
	-62.0	1.0	-63.0	26.46
	-61.0	1.0	-62.0	27.33
	-60.0	1.0	-61.0	28.28
	-59.0	1.0	-60.0	29.22
	-58.0	1.0	-59.0	30.09
	-57.0	1.0	-58.0	31.04
	-56.0	1.0	-57.0	31.87
	-55.0	1.0	-56.0	32.77
	-54.0	1.0	-55.0	32.77
	-53.0	1.0	-54.0	32.82
	-52.0	1.0	-53.0	32.86



10.3.4.1.4 Frequency range: Uplink: 799MHz~805MHz

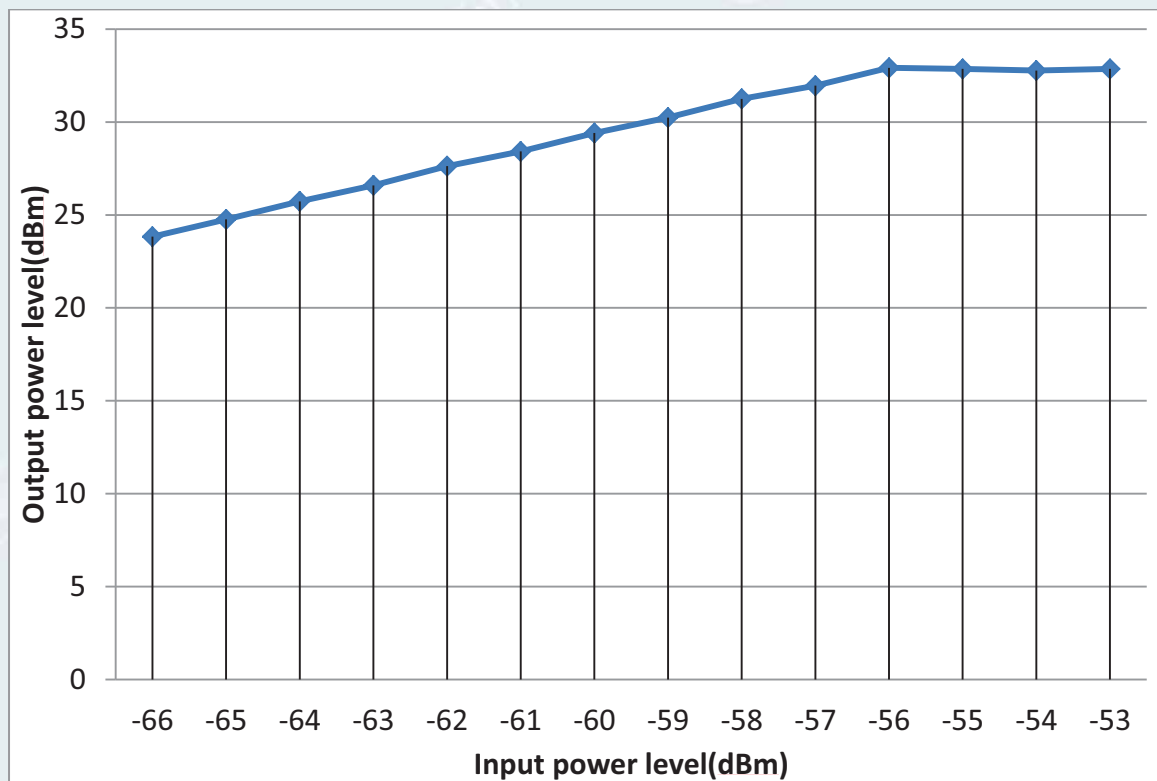
Test frequency	Input power (dBm)	Cable loss (dB)	Corrected Input power (dBm)	Corrected Output power (dBm)
Uplink 802MHz	-65.0	1.0	-66.0	23.02
	-64.0	1.0	-65.0	24.32
	-63.0	1.0	-64.0	25.21
	-62.0	1.0	-63.0	26.21
	-61.0	1.0	-62.0	27.08
	-60.0	1.0	-61.0	28.09
	-59.0	1.0	-60.0	28.96
	-58.0	1.0	-59.0	29.72
	-57.0	1.0	-58.0	29.70
	-56.0	1.0	-57.0	29.75
	-55.0	1.0	-56.0	29.77
	-54.0	1.0	-55.0	29.62



10.3.4.2 800MHz Band

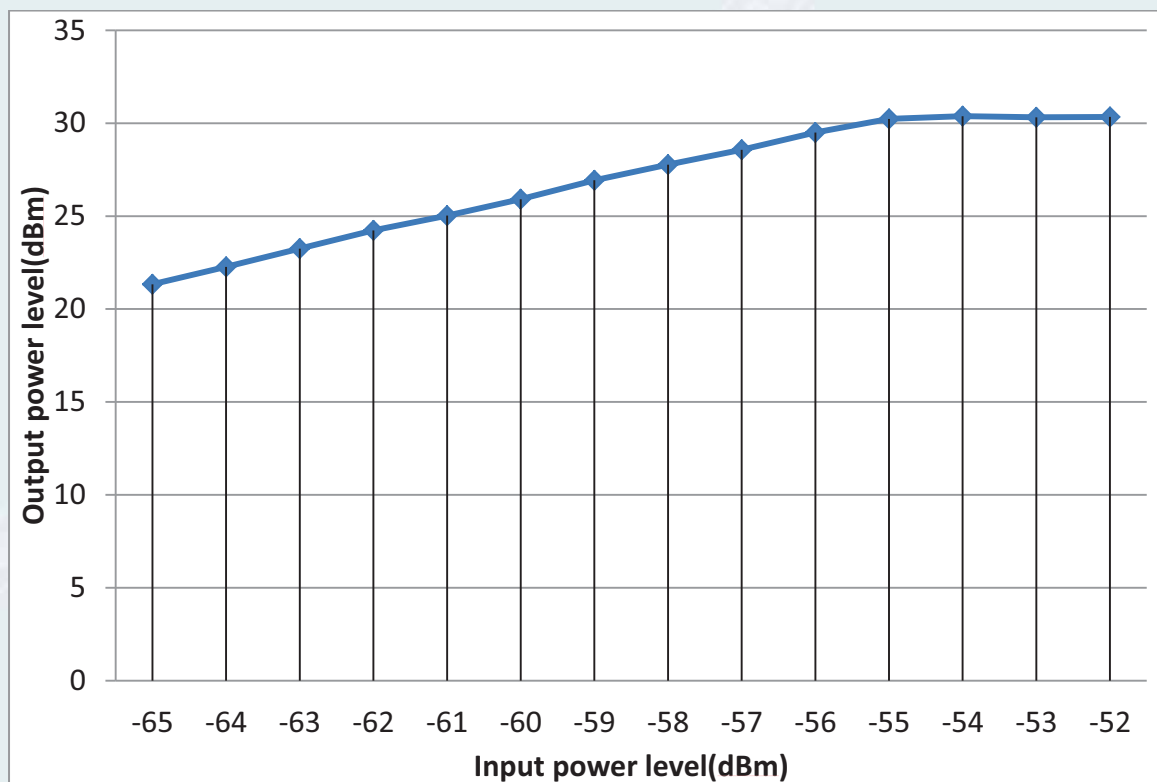
10.3.4.2.1 Frequency range: Downlink: 851MHz~861MHz

Test frequency	Input power (dBm)	Cable loss (dB)	Corrected Input power (dBm)	Corrected Output power (dBm)
Downlink 856MHz	-65.0	1.0	-66.0	23.83
	-64.0	1.0	-65.0	24.76
	-63.0	1.0	-64.0	25.73
	-62.0	1.0	-63.0	26.59
	-61.0	1.0	-62.0	27.63
	-60.0	1.0	-61.0	28.42
	-59.0	1.0	-60.0	29.41
	-58.0	1.0	-59.0	30.24
	-57.0	1.0	-58.0	31.25
	-56.0	1.0	-57.0	31.96
	-55.0	1.0	-56.0	32.92
	-54.0	1.0	-55.0	32.86
	-53.0	1.0	-54.0	32.77
	-52.0		-53.0	32.86



10.3.4.2.2 Frequency range: Uplink: 806MHz~816MHz

Test frequency	Input power (dBm)	Cable loss (dB)	Corrected Input power (dBm)	Corrected Output power (dBm)
Uplink 811MHz	-64.0	1.0	-65.0	21.33
	-63.0	1.0	-64.0	22.27
	-62.0	1.0	-63.0	23.25
	-61.0	1.0	-62.0	24.23
	-60.0	1.0	-61.0	25.03
	-59.0	1.0	-60.0	25.91
	-58.0	1.0	-59.0	26.93
	-57.0	1.0	-58.0	27.77
	-56.0	1.0	-57.0	28.57
	-55.0	1.0	-56.0	29.50
	-54.0	1.0	-55.0	30.23
	-53.0	1.0	-54.0	30.38
	-52.0	1.0	-53.0	30.32
	-51.0	1.0	-52.0	30.34



10.4 Out-of-band rejection

Test requirement: KDB 935210 D05 clause 4.3
FCC PART 90.219 (a)
FCC PART 90.219 (d)((7))

Test Method: KDB 935210 D05 clause 4.3

10.4.1 Requirements

According to KDB 935210 D05 clause 4.3 requirement, A signal booster shall reject amplification of other signals outside of its passband. Adjust the internal gain control of the EUT to the maximum gain for which equipment certification is sought.

10.4.2 Test configuration

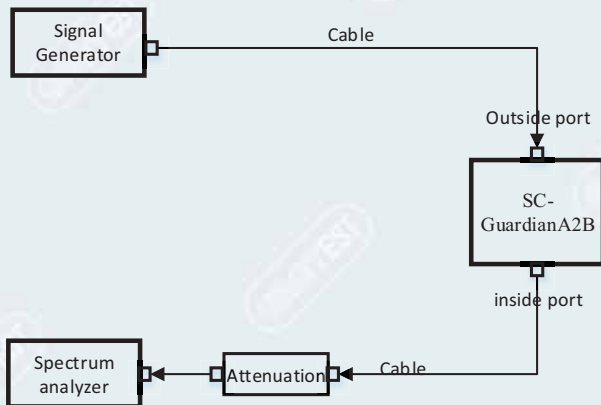


Figure 10.4-1 Downlink connection diagram

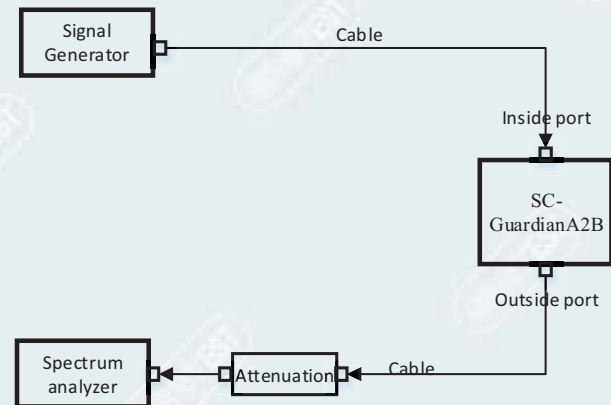


Figure 10.4-2 Uplink connection diagram

10.4.3 Test procedures

- Connect a signal generator to the input of the EUT.
- Configure a swept CW signal with the following parameters:
 - Frequency range = $\pm 250\%$ of the manufacturer's specified pass band.
 - The CW amplitude shall be 3 dB below the AGC threshold (see 4.2), and shall not activate the AGC threshold throughout the test.
 - Dwell time = approximately 10 ms.
 - Frequency step = 50 kHz.
- Connect a spectrum analyzer to the output of the EUT using appropriate attenuation.
- Set the RBW of the spectrum analyzer to between 1 % and 5 % of the manufacturer's rated passband, and $VBW = 3 \times RBW$.
- Set the detector to Peak and the trace to Max-Hold.
- After the trace is completely filled, place a marker at the peak amplitude, which is designated as f_0 , and with two additional markers (use the marker-delta method) at the 20 dB bandwidth (i.e., at the points where the level has fallen by 20 dB).
- Capture the frequency response plot for inclusion in the test report.

10.4.4 Test results

Test Date (yy-mm-dd): 2021-01-07 to 2021-01-12

Normal condition: Temp: 22.5~23.1℃, Humid:22~31%, Atmospheric Pressure:101kpa

Supply Voltage: AC 120V, 60Hz

10.4.4.1 700MHz Band

10.4.4.1.1 Downlink: 758MHz~768MHz/ Uplink: 788MHz~798MHz

RBW (kHz)	VBW (kHz)	20dB down		20dB BW (MHz)	Max Reading	
		Below frequency (MHz)	Up frequency (MHz)		F ₀ (MHz)	dBm
(1) Downlink: 758MHz~768MHz						
200	500	757.718	768.355	10.637	766.944	31.67
(2) Uplink: 788MHz~798MHz						
200	500	787.863	798.355	10.492	796.980	26.97

10.4.4.1.2 Downlink: 769MHz~775MHz/ Uplink: 799MHz~805MHz

RBW (kHz)	VBW (kHz)	20dB down		20dB BW (MHz)	Max Reading	
		Below frequency (MHz)	Up frequency (MHz)		F ₀ (MHz)	dBm
(1) Downlink: 769MHz~775MHz						
200	500	768.874	775.104	6.229	769.004	31.28
(2) Uplink: 799MHz~805MHz						
200	500	798.774	805.213	6.469	799.742	27.62

10.4.4.2 800MHz Band

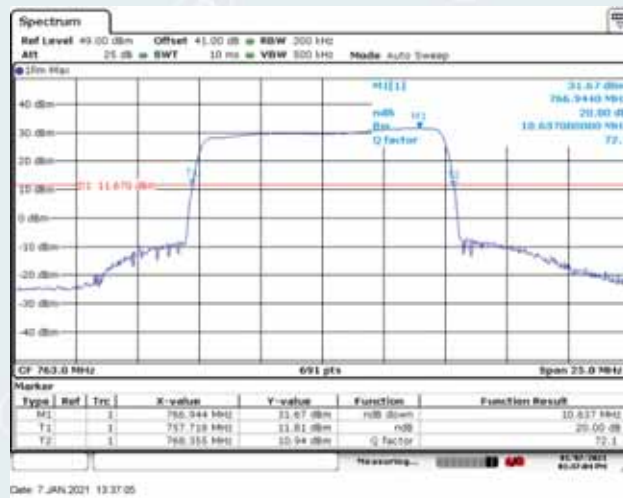
10.4.4.2.1 Downlink: 851MHz~861MHz/ Uplink: 806MHz~816MHz

RBW (kHz)	VBW (kHz)	20dB down		20dB BW (MHz)	Max Reading	
		Below frequency (MHz)	Up frequency (MHz)		F ₀ (MHz)	dBm
(1) Downlink: 851MHz~861MHz						
200	500	850.743	861.199	10.456	856.0	29.23
(2) Uplink: 806MHz~816MHz						
200	500	806.080	816.174	10.094	806.333	28.04

10.4.5 Test screenshot

10.4.5.1 700MHz Band

10.4.5.1.1 Downlink: 758MHz~768MHz/ Uplink: 788MHz~798MHz

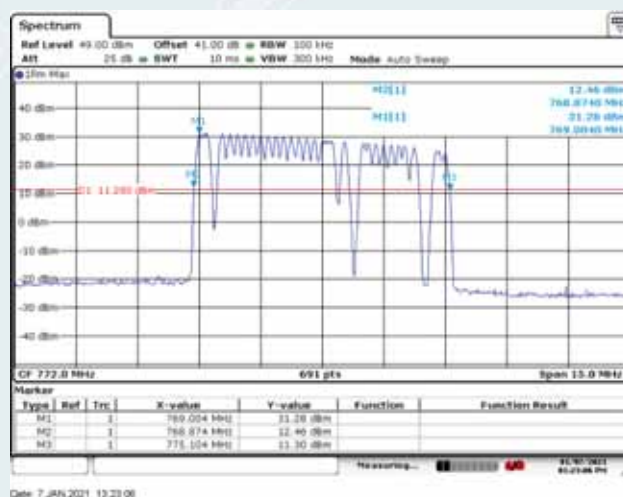


Downlink: 758MHz~768MHz



Uplink: 788MHz~798MHz

10.4.5.1.2 Downlink: 769MHz~775MHz/ Uplink: 799MHz~805MHz



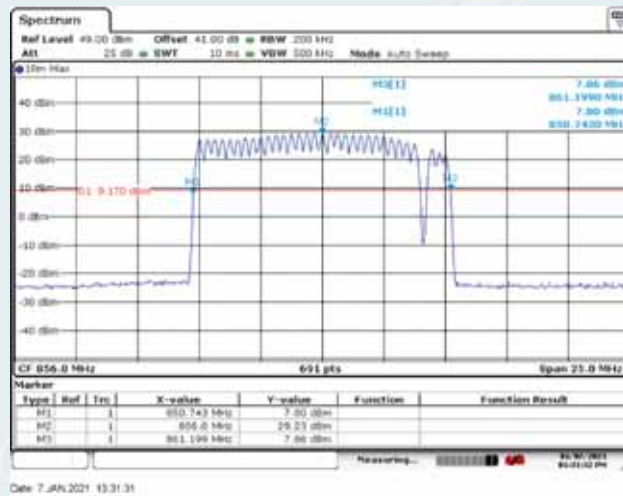
Downlink: 769MHz~775MHz



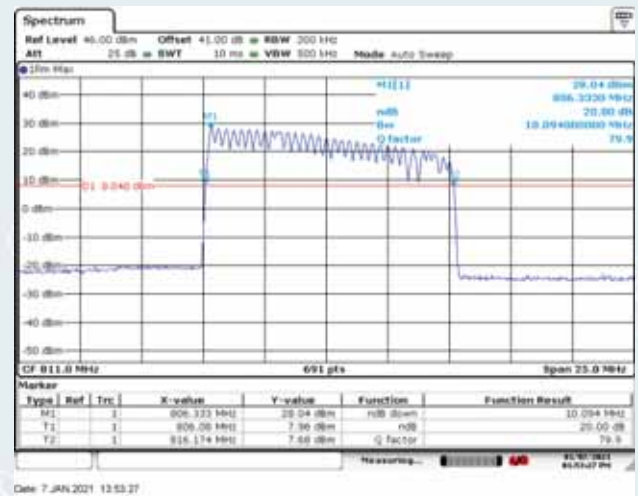
Uplink: 799MHz~805MHz

10.4.5.2 700MHz Band

10.4.5.2.1 Downlink: 851MHz~861MHz/ Uplink: 806MHz~816MHz



Downlink: 851MHz~861MHz (AGC-3)



Uplink: 806MHz~816MHz (AGC-3)

10.5 Input VS output Comparison

Test requirement: KDB 935210 D05 clause 4.4
FCC PART 2.1049(c)
FCC PART 90.219 (e)(4)(ii)
FCC PART 90.219 (e)(4)(iii)

Test Method: KDB 935210 D05 clause 4.4

10.5.1 Requirements

10.5.1.1 KDB 935210 D05 clause 4.4

4.4 Input-versus-output signal comparison

Compliance with the emission mask of the EUT output shall be measured for the public safety service signal types as specified in 4.1.

According to the characteristics of the product and FCC PART 90.210 requirement, Clause (b) and Clause (d) are used, Except as indicated else where in this part, transmitters used in the radio services governed by this part must comply with the emission masks outlined in this section. measurements of emission power can be expressed in either peak or average values provided that emission powers are expressed with the same parameters used to specify the unmodulated transmitter carrier power. For transmitters that do not produce a full power unmodulated carrier, reference to the unmodulated transmitter carrier power refers to the total power contained in the channel bandwidth. Unless indicated elsewhere in this part, the table in this section specifies the emission masks for device operating under this part.

§90.210 Emission masks.

Except as indicated elsewhere in this part, transmitters used in the radio services governed by this part must comply with the emission masks outlined in this section. Unless otherwise stated, per paragraphs (d)(4), (e)(4), and (o) of this section, measurements of emission power can be expressed in either peak or average values provided that emission powers are expressed with the same parameters used to specify the unmodulated transmitter carrier power. For transmitters that do not produce a full power unmodulated carrier, reference to the unmodulated transmitter carrier power refers to the total power contained in the channel bandwidth. Unless indicated elsewhere in this part, the table in this section specifies the emission masks for equipment operating under this part.

APPLICABLE EMISSION MASKS

Frequency band (MHz)	Mask for equipment with audio low pass filter	Mask for equipment without audio low pass filter
Below 25 ¹	A or B	A or C
25-50	B	C
72-76	B	C
150-174 ²	B, D, or E	C, D or E
150 paging only	B	C
220-222	F	F
421-512 ^{2 5}	B, D, or E	C, D, or E
450 paging only	B	G
806-809/851-854 ⁶	B	H
809-824/854-869 ³⁵	B, D	D, G.
896-901/935-940	I	J
902-928	K	K
929-930	B	G
4940-4990 MHz	L or M	L or M
5850-5925 ⁴		
All other bands	B	C

10.5.1.2 FCC PART 90.210 (b) and (d)

(b) *Emission Mask B.* For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log (P)$ dB.

(c) *Emission Mask C.* For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier output power (P) as follows:

(d) *Emission Mask D—12.5 kHz channel bandwidth equipment.* For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(1) On any frequency from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB.

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

10.5.1.3 FCC PART 2.1049(c)

§2.1049 Measurements required: Occupied bandwidth.

The occupied bandwidth, that 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 radiated by a given emission shall be measured under the following conditions as applicable:

(a) Radiotelegraph transmitters for manual operation when keyed at 16 dots per second.

(b) Other keyed transmitters—when keyed at the maximum machine speed.

(c) Radiotelephone transmitters equipped with a device to limit modulation or peak envelope power shall be modulated as follows. For single sideband and independent sideband transmitters, the input level of the modulating signal shall be 10 dB greater than that necessary to produce rated peak envelope power.

(1) Other than single sideband or independent sideband transmitters—when modulated by a 2500 Hz tone at an input level 16 dB greater than that necessary to produce 50 percent modulation. The input level shall be established at the frequency of maximum response of the audio modulating circuit.

(2) Single sideband transmitters in A3A or A3J emission modes—when modulated by two tones at frequencies of 400 Hz and 1800 Hz (for 3.0 kHz authorized bandwidth), or 500 Hz and 2100 Hz (for 3.5 kHz authorized bandwidth), or 500 Hz and 2400 Hz (for 4.0 kHz authorized bandwidth), applied simultaneously. The input levels of the tones shall be so adjusted that the two principal frequency components of the radio frequency signal produced are equal in magnitude.

10.5.1.4 FCC PART 90.219 (e)(4)(ii)

(4) A signal booster must be designed such that all signals that it retransmits meet the following requirements:

(i) The signals are retransmitted on the same channels as received. Minor departures from the exact provider or reference frequencies of the input signals are allowed, *provided that the retransmitted signals meet the requirements of §90.213.*

<https://www.ecfr.gov/cgi-bin/text-idx?SID=2097cbcdce8abb94d012e95530a44e05&mc=true&node=pt47.5.90&rgn=div5>

020/6/15

Electronic Code of Federal Regulations (eCFR)

(ii) There is no change in the occupied bandwidth of the retransmitted signals.

(iii) The retransmitted signals continue to meet the unwanted emissions limits of §90.210 applicable to the corresponding received signals (assuming that these received signals meet the applicable unwanted emissions limits by a reasonable margin).

According to FCC PART 2.1049(c), FCC PART 90.219 (e)(4)(ii) and (iii) requirement, The occupied bandwidth, that 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 radiated by a given emission shall be measured.

10.5.2 Test configuration

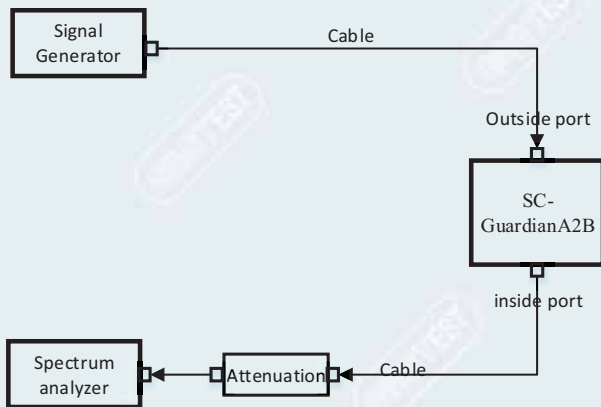


Figure 10.5-1 Downlink connection diagram

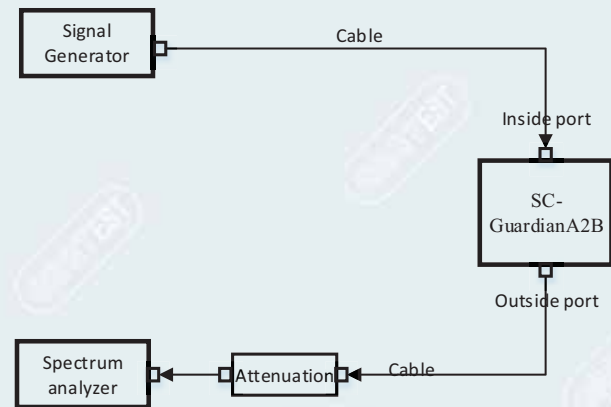


Figure 10.5-2 Uplink connection diagram

10.5.3 Test procedures

- a) Connect a signal generator to the input of the EUT.
- b) Configure the signal generator to transmit the appropriate test signal associated with the public safety emission designation (see Table 1).
- c) Configure the signal level to be just below the AGC threshold (see results from 4.2).
- d) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation as necessary.
- e) Set the spectrum analyzer center frequency to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between $2 \times$ to $5 \times$ the EBW (or OBW).
- f) The nominal RBW shall be 300 Hz for 16K0F3E, and 100 Hz for all other emissions types.
- g) Set the reference level of the spectrum analyzer to accommodate the maximum input amplitude level, i.e., the level at f_0 per 4.3.
- h) Set spectrum analyzer detection mode to peak, and trace mode to max hold.
- i) Allow the trace to fully stabilize.
- j) Confirm that the signal is contained within the appropriate emissions mask.
- k) Use the marker function to determine the maximum emission level and record the associated frequency.
- l) Capture the emissions mask plot for inclusion in the test report (output signal spectra).
- m) Measure the EUT input signal power (signal generator output signal) directly from the signal generator using power measurement guidance provided in KDB Publication 971168 [R8] (input signal spectra).
- n) Compare the spectral plot of the output signal (determined in step k), to the input signal (determined in step l) to affirm they are similar (in passband and rolloff characteristic features and relative spectral locations).
- o) Repeat steps d) to n) with the input signal amplitude set 3 dB above the AGC threshold.
- p) Repeat steps b) to o) for all authorized operational bands and emissions types (see applicable regulatory specifications, e.g., Section 90.210).
- q) Include all accumulated spectral plots depicting EUT input signal and EUT output signal in the test report, and note any observed dissimilarities.

10.5.4 Test results

Test Date (yy-mm-dd): 2021-01-07 to 2021-02-05

Normal condition: Temp: 22.5~23.1℃, Humid:22~31%, Atmospheric Pressure:101kpa

Supply Voltage: AC 120V, 60Hz

10.5.4.1 Emission mask

10.5.4.1.1 700MHz Band

10.5.4.1.1.1 LTE mode

Carrier frequency (MHz)	Input signal status	Limit	Test Data	Result
Downlink transmit mode				
Mid frequency: 763.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.1	PASS
Uplink transmit mode				
Mid frequency: 793.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.1	PASS

10.5.4.1.1.2 C4FM mode

Carrier frequency (MHz)	Input signal status	Limit	Test Data	Result
Downlink transmit mode				
Low frequency: 769.00625	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
Mid frequency: 772.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
High frequency: 774.99375	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
Uplink transmit mode				
Low frequency: 799.00625	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
Mid frequency: 802.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS

	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
High frequency: 804.99375	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.2	PASS

10.5.4.1.1.3 TETRA mode

Carrier frequency (MHz)	Input signal status	Limit	Test Data	Result
Downlink transmit mode				
Low frequency: 769.0125	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
Mid frequency: 772.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
High frequency: 774.9875	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
Uplink transmit mode				
Low frequency: 799.0125	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
Mid frequency: 802.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
High frequency: 804.9875	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.3	PASS

10.5.4.1.1.4 Analog FM mode

Carrier frequency (MHz)	Input signal status	Limit	Test Data	Result
Downlink transmit mode				
Low frequency: 769.0125	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS

Mid frequency: 772.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
High frequency: 774.9875	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
Uplink transmit mode				
Low frequency: 799.0125	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
Mid frequency: 802.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
High frequency: 804.9875	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.1.4	PASS

10.5.4.1.2 800MHz Band

10.5.4.1.2.1 C4FM mode (Mask D: 12.5kHz channel)

Carrier frequency (MHz)	Input signal status	Limit	Test Data	Result
Downlink transmit mode				
Low frequency: 854.00625	with the input signal amplitude set the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
Mid frequency: 857.5	with the input signal amplitude set the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
High frequency: 860.99375	with the input signal amplitude set the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
Uplink transmit mode				
Low frequency: 809.00625	with the input signal amplitude set the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS

Mid frequency: 812.5	with the input signal amplitude set the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
High frequency: 815.99375	with the input signal amplitude set the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask D	See clause 10.5.5.1.2.1	PASS

10.5.4.1.2.2 TETRA mode

Carrier frequency (MHz)	Input signal status	Limit	Test Data	Result
Downlink transmit mode				
Low frequency: 851.0125	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
Mid frequency: 856.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
High frequency: 860.9875	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
Uplink transmit mode				
Low frequency: 806.0125	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
Mid frequency: 811.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
High frequency: 815.9875	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.2	PASS

10.5.4.1.2.3 Analog FM mode

Carrier frequency (MHz)	Input signal status	Limit	Test Data	Result
Downlink transmit mode				
Low frequency: 851.0125	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS

	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
Mid frequency: 856.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
High frequency: 860.9875	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
Uplink transmit mode				
Low frequency: 806.0125	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
Mid frequency: 811.0	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
High frequency: 815.9875	with the input signal amplitude set the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS
	with the input signal amplitude set 3 dB above the AGC threshold	Mask B	See clause 10.5.5.1.2.3	PASS

10.5.4.2 Occupied bandwidth

10.5.4.2.1 700MHz Band

10.5.4.2.1.1 LTE mode

Carrier frequency (MHz)	Input signal status	Test data
(1) Downlink transmit mode		
Mid frequency: 763.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.1.1
(2) Uplink transmit mode		
Mid frequency: 793.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.1.2

10.5.4.2.1.2 C4FM mode

Carrier frequency (MHz)	Input signal status	Test data
(1) Downlink transmit mode		

Low frequency: 769.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.2.1
Mid frequency: 772.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.2.1
High frequency: 774.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.2.1

(2) Uplink transmit mode

Low frequency: 799.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.2.2
Mid frequency: 802.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.2.2
High frequency: 804.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.2.2

10.5.4.2.1.3 TETRA mode

Carrier frequency (MHz)	Input signal status	Test data
(3) Downlink transmit mode		
Low frequency: 769.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.3.1
Mid frequency: 772.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.3.1
High frequency: 774.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.3.1
(4) Uplink transmit mode		
Low frequency: 799.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.3.2
Mid frequency: 802.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.3.2

	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.3.2
High frequency: 804.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.3.2

10.5.4.2.1.4 Analog FM mode

Carrier frequency (MHz)	Input signal status	Test data
(5) Downlink transmit mode		
Low frequency: 769.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.4.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.4.1
Mid frequency: 772.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.4.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.4.1
High frequency: 774.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.4.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.4.1
(6) Uplink transmit mode		
Low frequency: 799.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.4.2
Mid frequency: 802.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.4.2
High frequency: 804.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.1.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.1.4.2

10.5.4.2.2 800MHz Band

10.5.4.2.2.1 C4FM mode

Carrier frequency (MHz)	Input signal status	Test data
(7) Downlink transmit mode		
Low frequency: 851.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.1.1
Mid frequency: 856.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.1.1

	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.1.1
High frequency: 860.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.1.1
(8) Uplink transmit mode		
Low frequency: 806.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.1.2
Mid frequency: 811.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.1.2
High frequency: 815.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.1.2

10.5.4.2.2.2 TETRA mode

Carrier frequency (MHz)	Input signal status	Test data
(9) Downlink transmit mode		
Low frequency: 851.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.2.1
Mid frequency: 856.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.2.1
High frequency: 860.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.2.1
(10) Uplink transmit mode		
Low frequency: 806.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.2.2
Mid frequency: 811.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.2.2
High frequency: 815.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.2.2

10.5.4.2.2.3 Analog FM mode

Carrier frequency (MHz)	Input signal status	Test data
(11)Downlink transmit mode		
Low frequency: 851.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.3.1
Mid frequency: 856.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.3.1
High frequency: 860.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.3.1
(12)Uplink transmit mode		
Low frequency: 806.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.3.2
Mid frequency: 811.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.3.2
High frequency: 815.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.2.2.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.2.2.3.2

10.5.4.3 Input VS output Comparison

10.5.4.3.1 700MHz Band

10.5.4.3.1.1 LTE mode

Carrier frequency (MHz)	Input signal status	Test data
(1) Downlink transmit mode		
Mid frequency: 763.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.1.1
(2) Uplink transmit mode		
Mid frequency: 793.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.1.2

10.5.4.3.1.2 C4FM mode

Carrier frequency (MHz)	Input signal status	Test data
(1) Downlink transmit mode		
Low frequency: 769.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.2.1
Mid frequency: 772.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.2.1
High frequency: 774.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.2.1
(2) Uplink transmit mode		
Low frequency: 799.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.2.2
Mid frequency: 802.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.2.2
High frequency: 804.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.2.2

10.5.4.3.1.3 TETRA mode

Carrier frequency (MHz)	Input signal status	Test data
(1) Downlink transmit mode		
Low frequency: 769.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.3.1
Mid frequency: 772.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.3.1
High frequency: 774.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.3.1
(2) Uplink transmit mode		
Low frequency: 799.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.3.2
Mid frequency: 802.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.3.2
High frequency: 804.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.3.2

10.5.4.3.1.4 Analog FM mode

Carrier frequency (MHz)	Input signal status	Test data
(1) Downlink transmit mode		
Low frequency: 769.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.4.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.4.1
Mid frequency: 772.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.4.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.4.1
High frequency: 774.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.4.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.4.1
(2) Uplink transmit mode		

Low frequency: 799.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.4.2
Mid frequency: 802.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.4.2
High frequency: 804.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.1.4.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.1.4.2

10.5.4.3.2 800MHz Band

10.5.4.3.2.1 C4FM mode

Carrier frequency (MHz)	Input signal status	Test data
(1) Downlink transmit mode		
Low frequency: 851.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.1.1
Mid frequency: 856.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.1.1
High frequency: 860.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.1.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.1.1
(2) Uplink transmit mode		
Low frequency: 806.00625	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.1.2
Mid frequency: 811.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.1.2
High frequency: 815.99375	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.1.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.1.2

10.5.4.3.2.2 TETRA mode

Carrier frequency (MHz)	Input signal status	Test data
(1) Downlink transmit mode		

Low frequency: 851.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.2.1
Mid frequency: 856.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.2.1
High frequency: 860.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.2.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.2.1

(2) Uplink transmit mode

Low frequency: 806.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.2.2
Mid frequency: 811.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.2.2
High frequency: 815.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.2.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.2.2

10.5.4.3.2.3 Analog FM mode

Carrier frequency (MHz)	Input signal status	Test data
(1) Downlink transmit mode		
Low frequency: 851.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.3.1
Mid frequency: 856.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.3.1
High frequency: 860.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.3.1
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.3.1
(2) Uplink transmit mode		
Low frequency: 806.0125	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.3.2
Mid frequency: 811.0	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.3.2

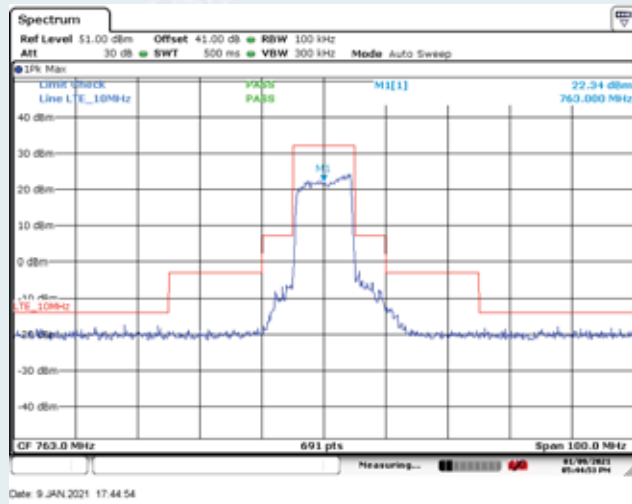
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.3.2
High frequency: 815.9875	with the input signal amplitude set the AGC threshold	See clause 10.5.5.3.2.3.2
	with the input signal amplitude set 3 dB above the AGC threshold	See clause 10.5.5.3.2.3.2

10.5.5 Test screenshot

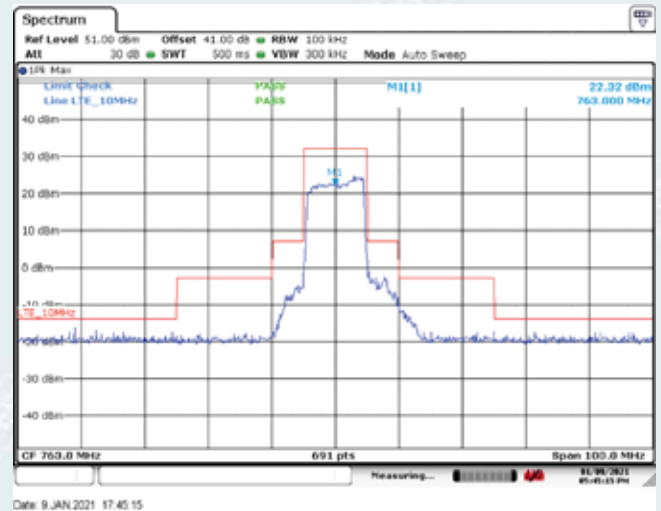
10.5.5.1 Emission mask

10.5.5.1.1 700MHz Band

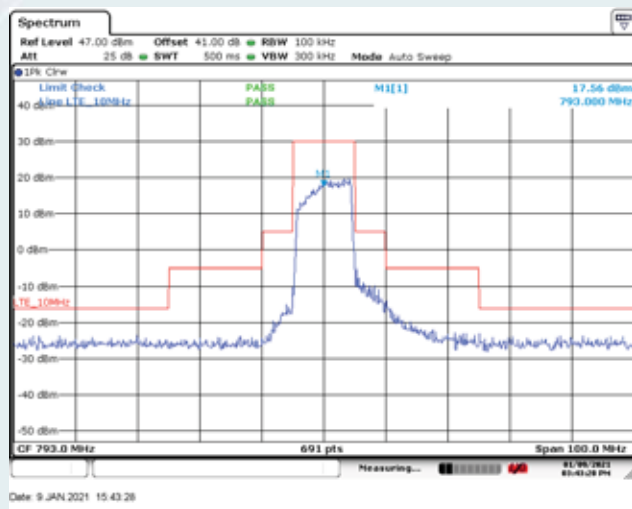
10.5.5.1.1.1 LTE mode



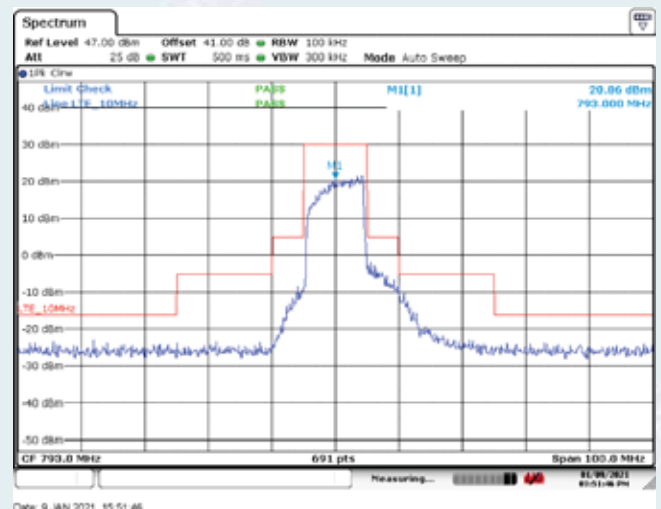
with the input signal amplitude set the AGC threshold
Downlink Frequency: 763MHz



with the input signal amplitude set 3 dB above the AGC threshold
Downlink Frequency: 763MHz



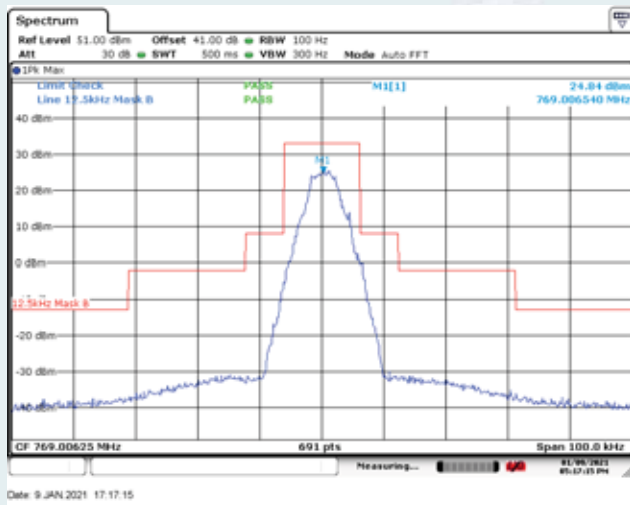
with the input signal amplitude set the AGC threshold
Uplink Frequency: 793MHz



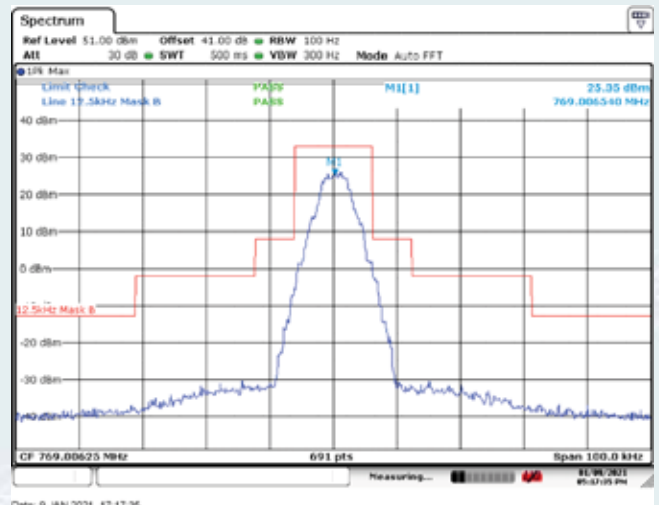
with the input signal amplitude set 3 dB above the AGC threshold
Uplink Frequency: 793MHz

10.5.5.1.1.2 C4FM mode

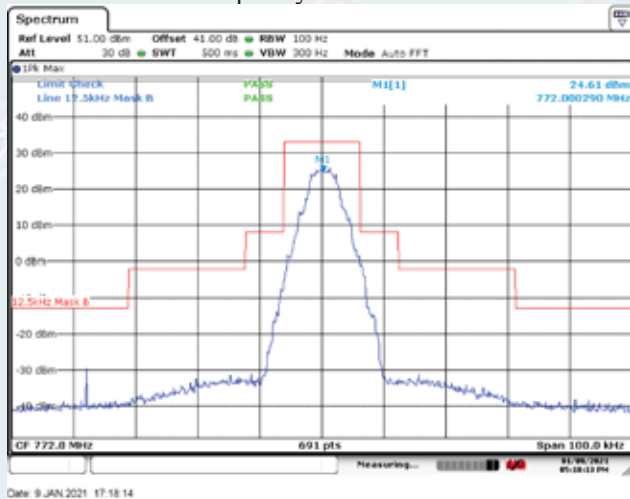
(1). Downlink transmit mode



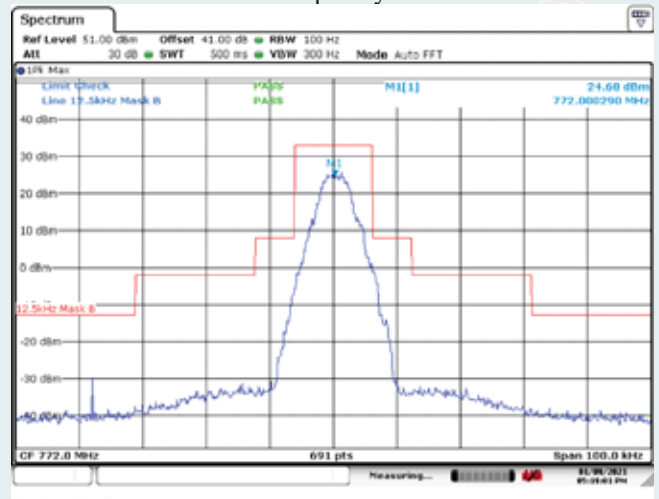
with the input signal amplitude set the AGC threshold
Low Frequency: 769.00625MHz



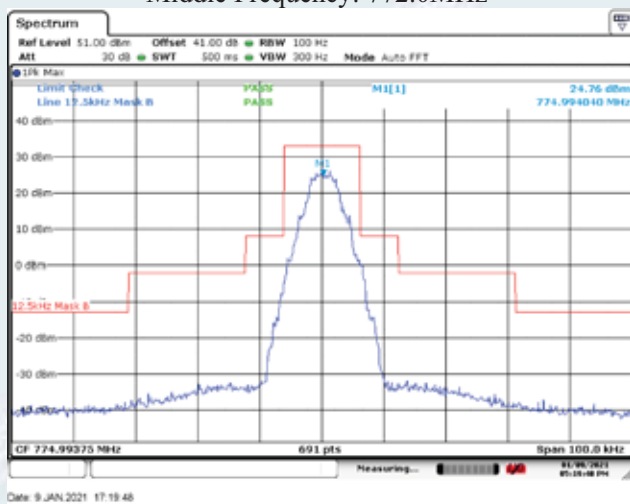
with the input signal amplitude set 3 dB above the AGC
threshold Low Frequency: 769.00625MHz



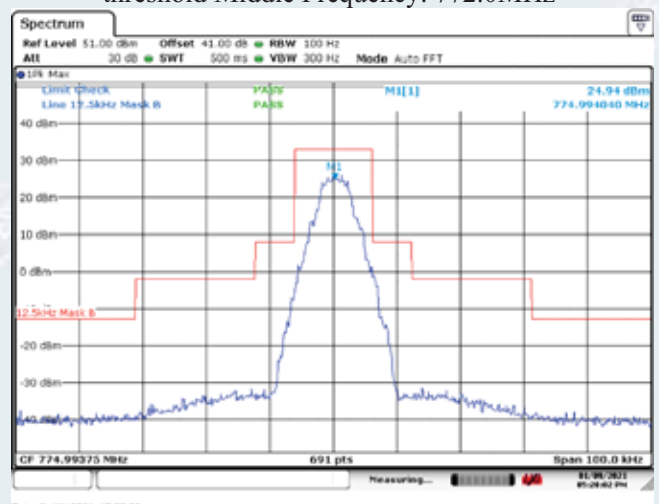
with the input signal amplitude set the AGC threshold
Middle Frequency: 772.0MHz



with the input signal amplitude set 3 dB above the AGC
threshold Middle Frequency: 772.0MHz

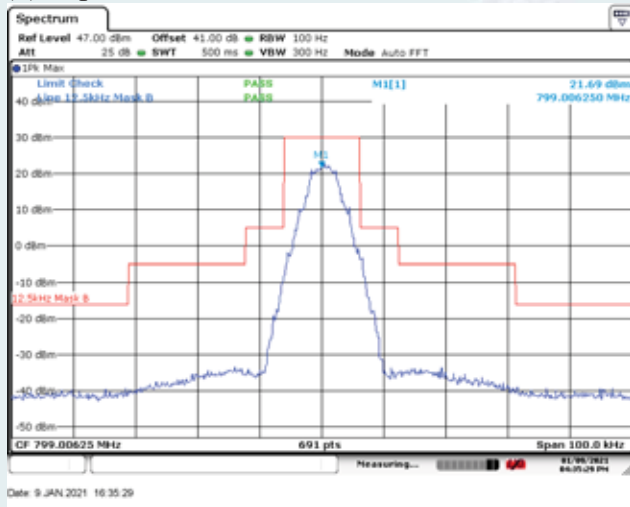


with the input signal amplitude set the AGC threshold
High Frequency: 774.99375MHz

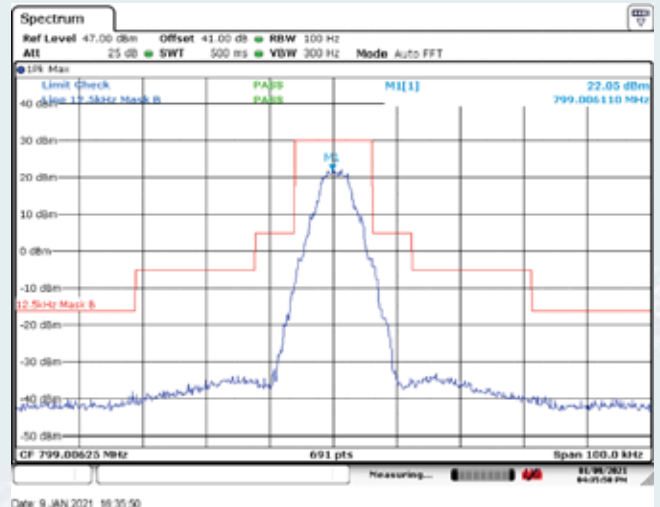


with the input signal amplitude set 3 dB above the AGC
threshold, High Frequency: 774.99375MHz

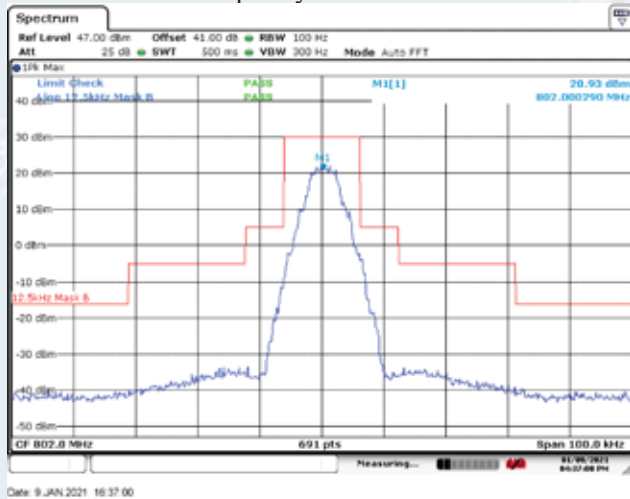
(2). Uplink transmit mode



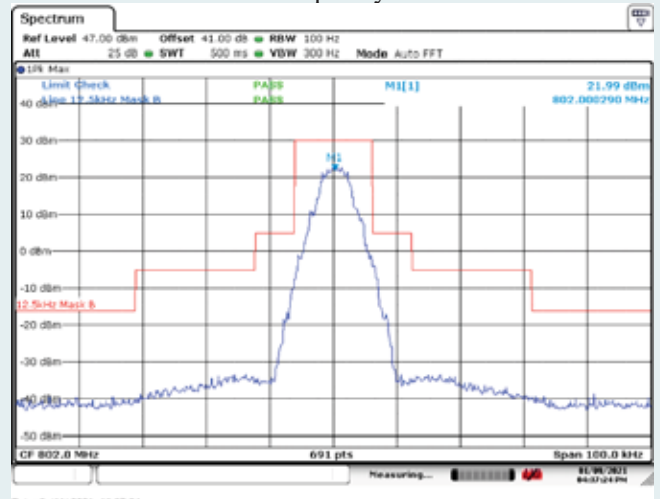
with the input signal amplitude set the AGC threshold
Low Frequency: 799.00625MHz



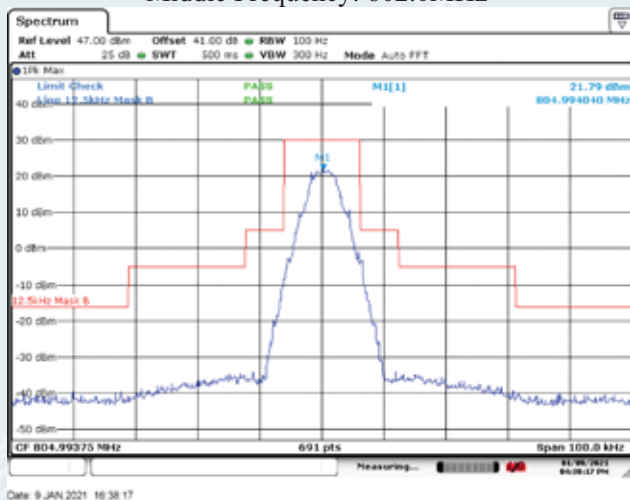
with the input signal amplitude set 3 dB above the AGC
threshold Low Frequency: 799.00625MHz



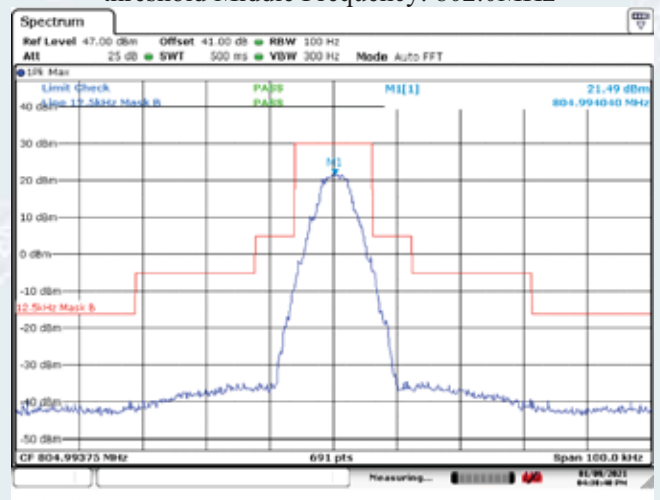
with the input signal amplitude set the AGC threshold
Middle Frequency: 802.0MHz



with the input signal amplitude set 3 dB above the AGC
threshold Middle Frequency: 802.0MHz



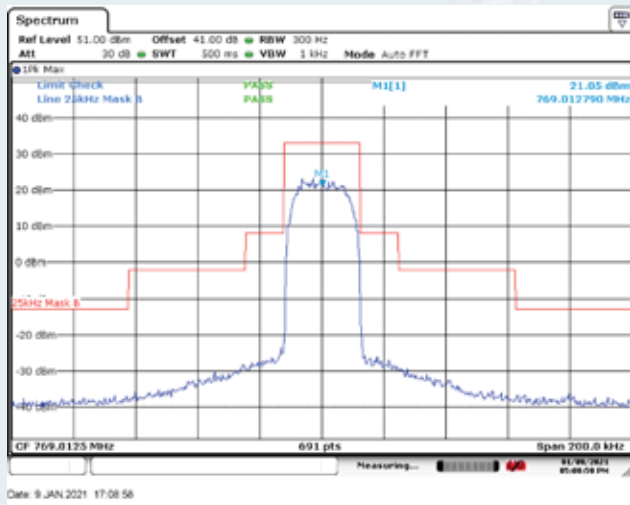
with the input signal amplitude set the AGC threshold
High Frequency: 804.99375MHz



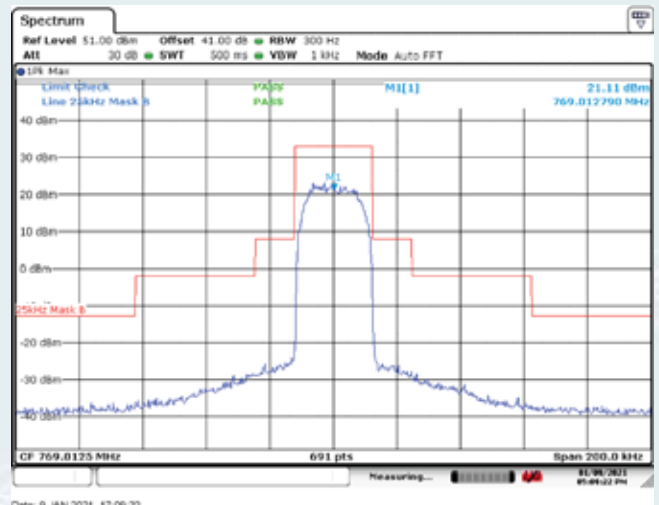
with the input signal amplitude set 3 dB above the AGC
threshold, High Frequency: 804.99375MHz

10.5.5.1.1.3 TETRA mode

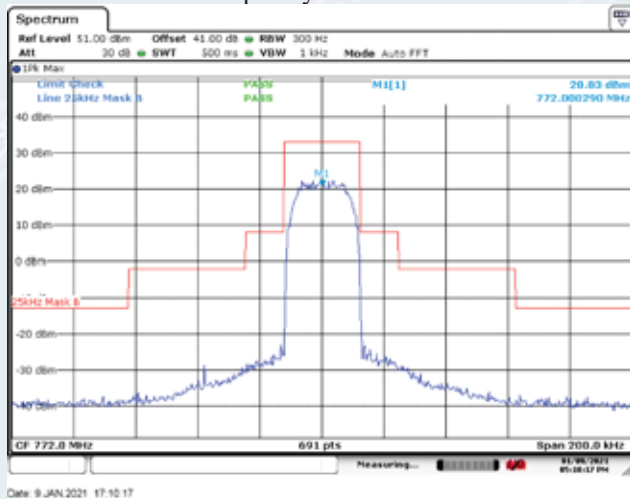
(1). Downlink transmit mode



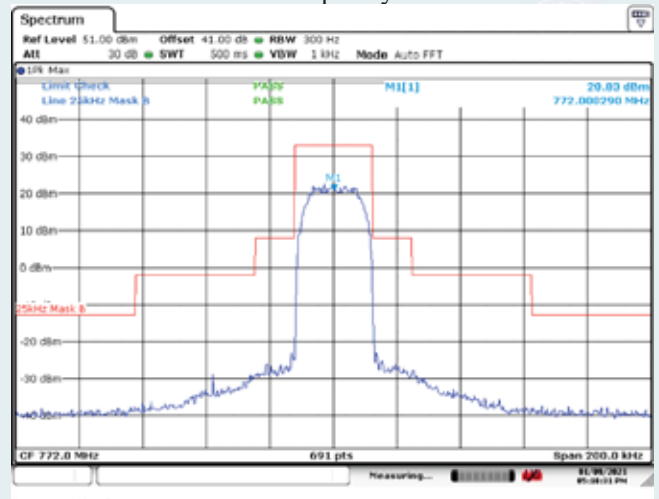
with the input signal amplitude set the AGC threshold
Low Frequency: 769.0125MHz



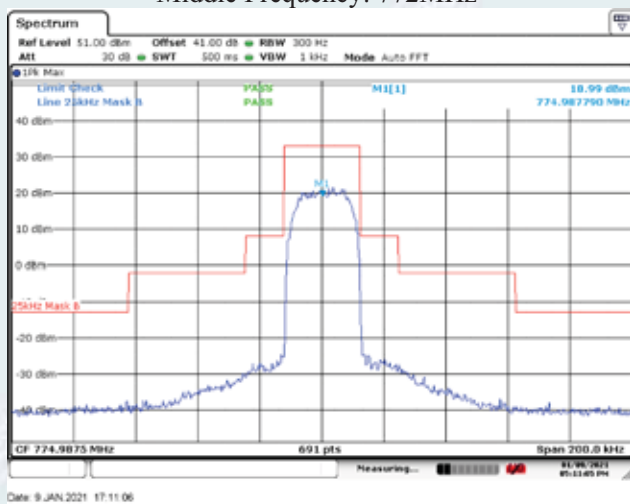
with the input signal amplitude set 3 dB above the AGC threshold
Low Frequency: 769.0125MHz



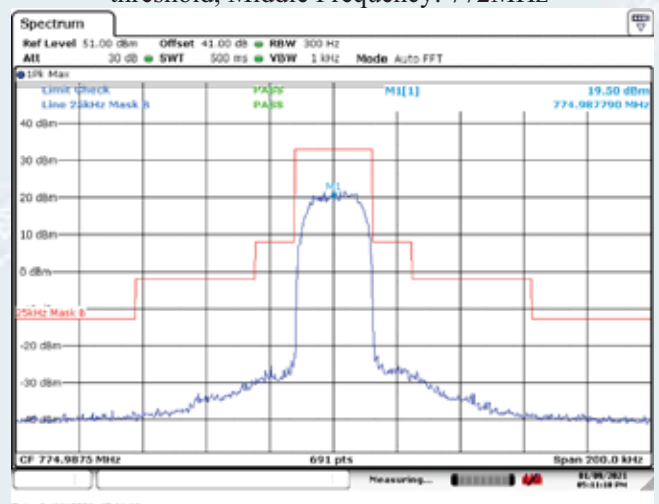
with the input signal amplitude set the AGC threshold
Middle Frequency: 772MHz



with the input signal amplitude set 3 dB above the AGC threshold,
Middle Frequency: 772MHz

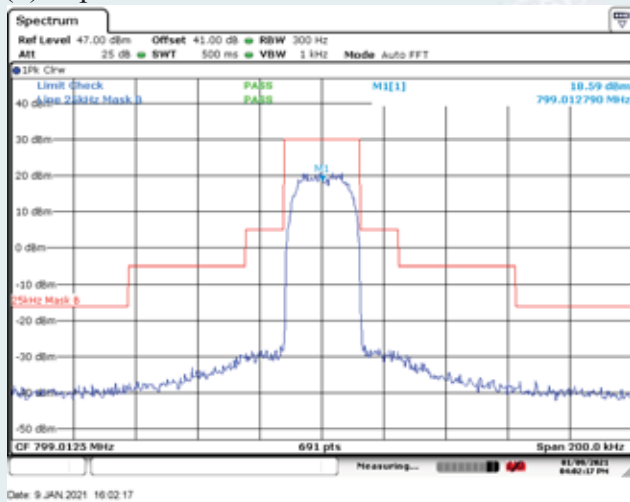


with the input signal amplitude set the AGC threshold
High Frequency: 774.9875MHz

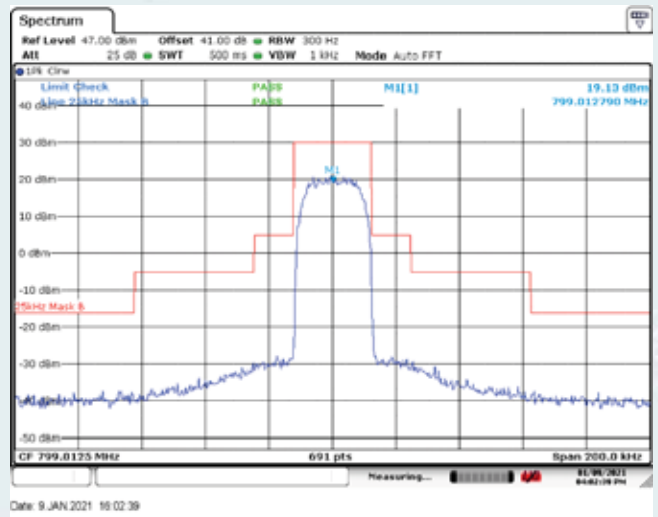


with the input signal amplitude set 3 dB above the AGC threshold,
High Frequency: 774.9875MHz

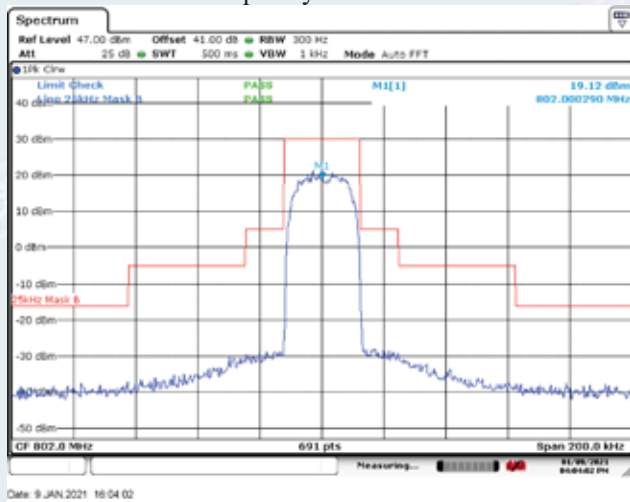
(2). Uplink transmit mode



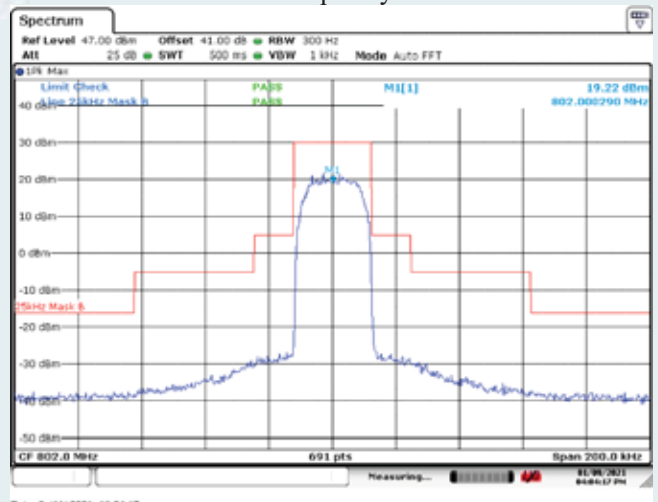
with the input signal amplitude set the AGC threshold
Low Frequency: 799.0125MHz



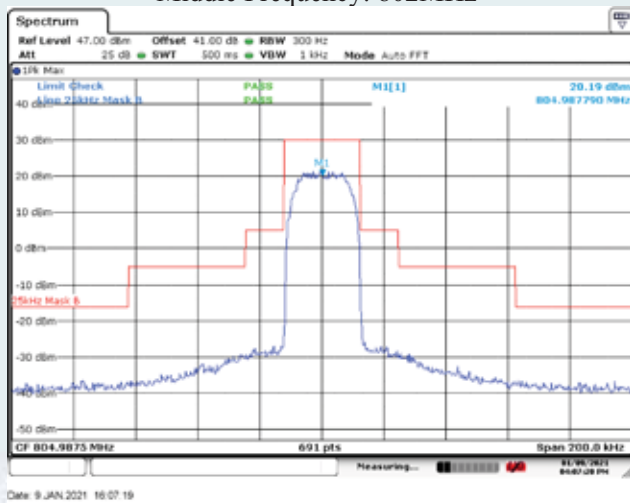
with the input signal amplitude set 3 dB above the AGC threshold
Low Frequency: 799.0125MHz



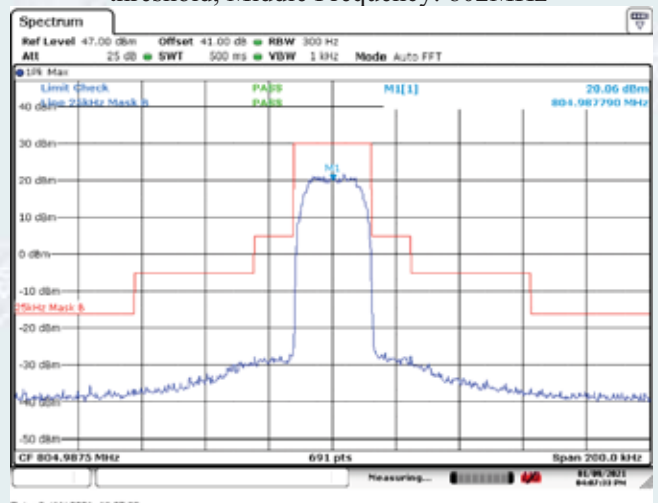
with the input signal amplitude set the AGC threshold
Middle Frequency: 802MHz



with the input signal amplitude set 3 dB above the AGC threshold,
Middle Frequency: 802MHz



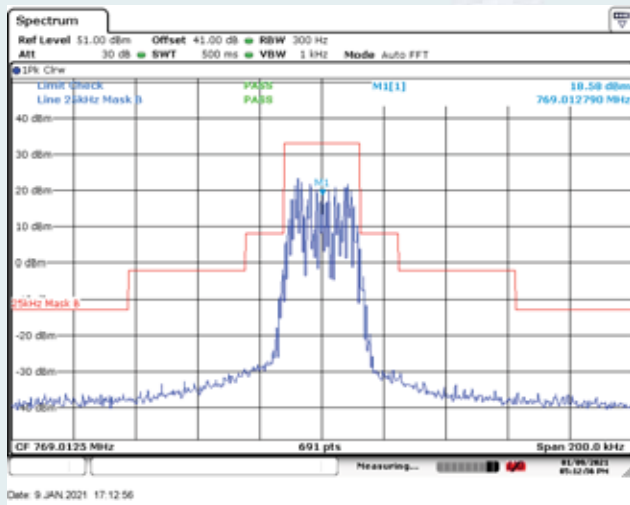
with the input signal amplitude set the AGC threshold
High Frequency: 804.9875MHz



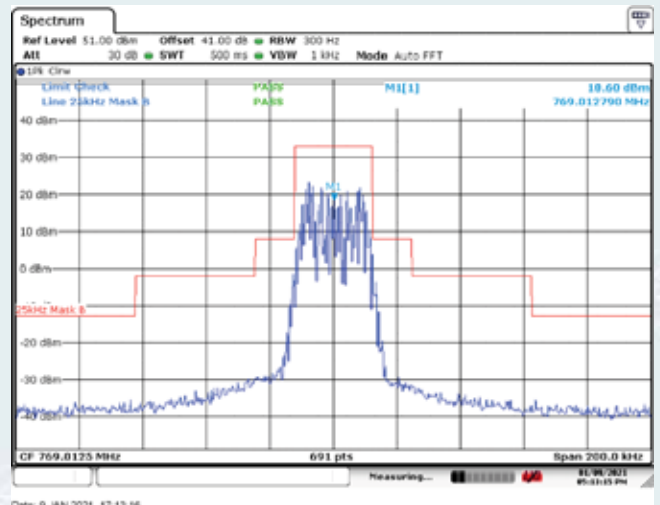
with the input signal amplitude set 3 dB above the AGC threshold,
High Frequency: 804.9875MHz

10.5.5.1.1.4 Analog FM mode

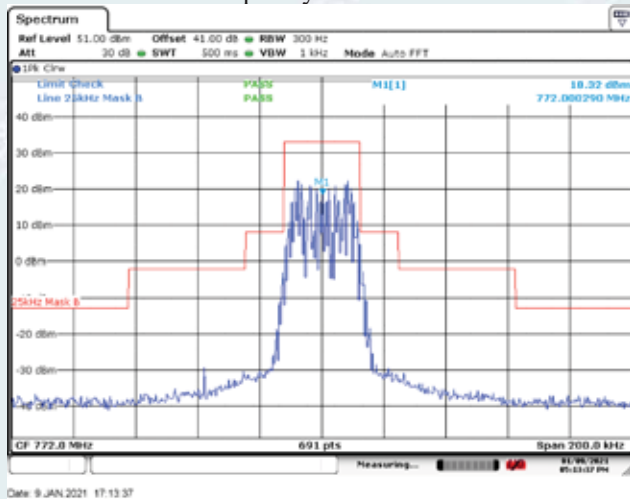
(1). Downlink transmit mode



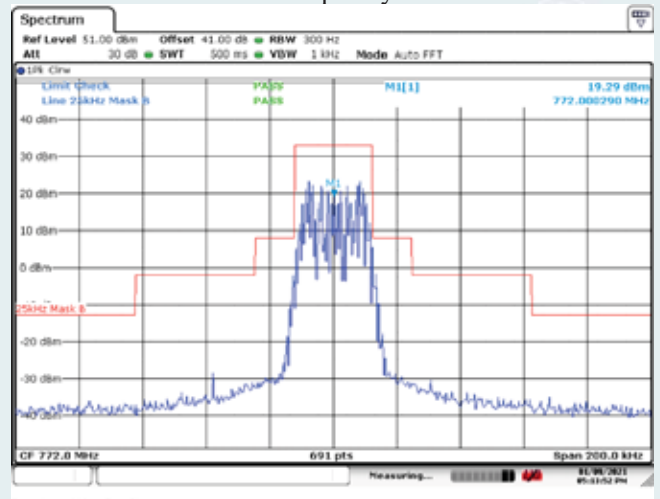
with the input signal amplitude set the AGC threshold
Low Frequency: 769.0125MHz



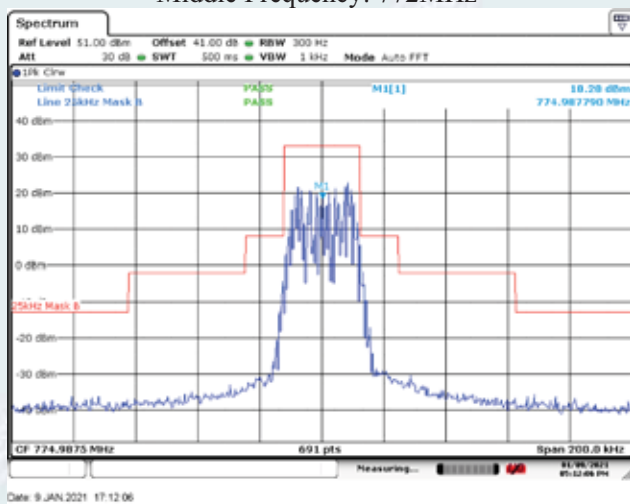
with the input signal amplitude set 3 dB above the AGC threshold
Low Frequency: 769.0125MHz



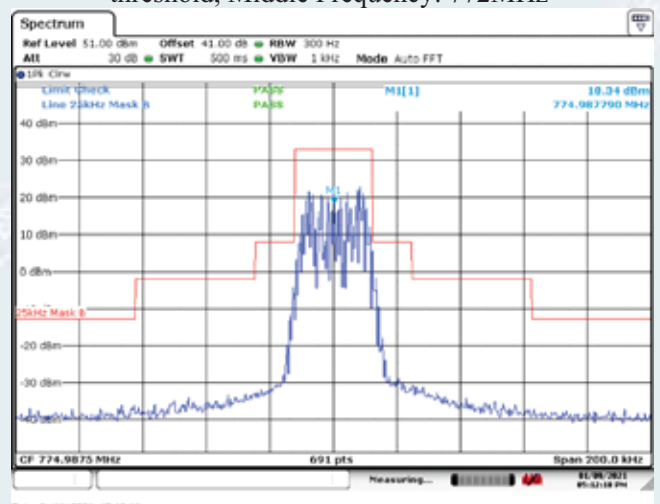
with the input signal amplitude set the AGC threshold
Middle Frequency: 772MHz



with the input signal amplitude set 3 dB above the AGC threshold,
Middle Frequency: 772MHz

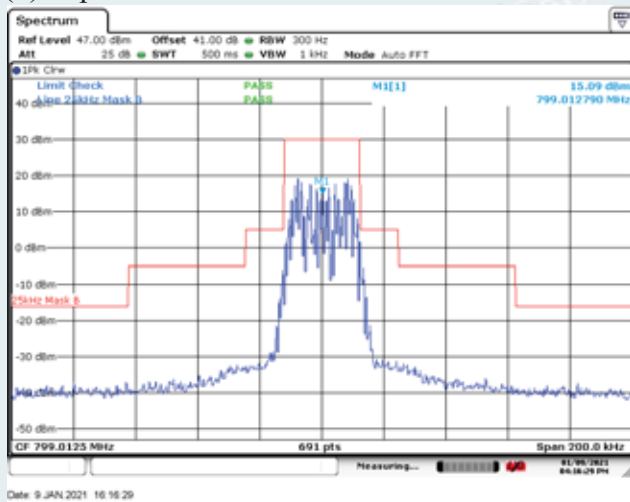


with the input signal amplitude set the AGC threshold
High Frequency: 774.9875MHz



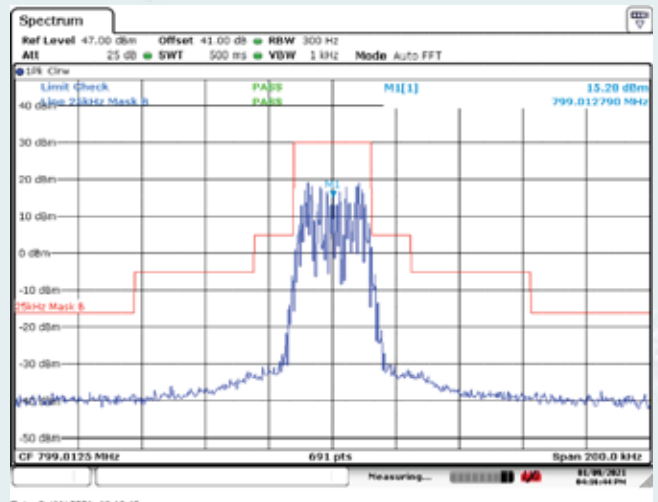
with the input signal amplitude set 3 dB above the AGC threshold,
High Frequency: 774.9875MHz

(2). Uplink transmit mode



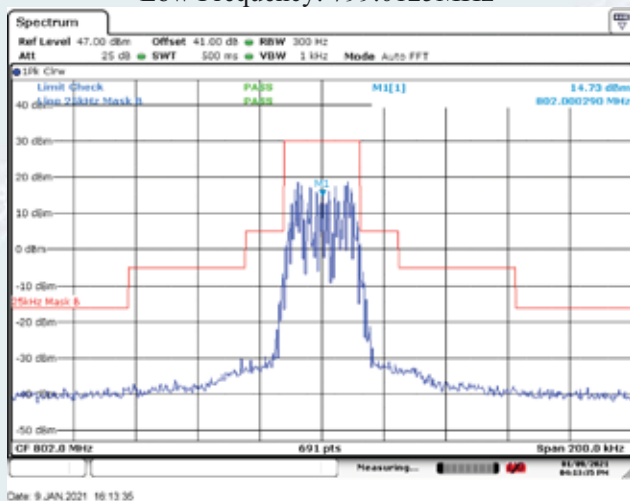
Date: 9 JAN 2021 16:16:29

with the input signal amplitude set the AGC threshold
Low Frequency: 799.0125MHz



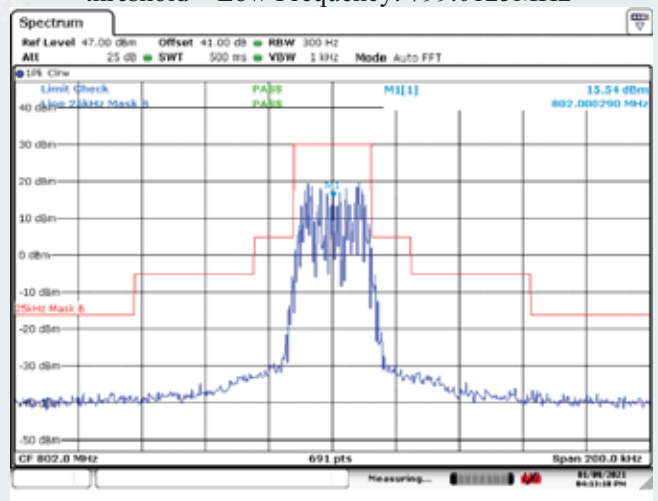
Date: 9 JAN 2021 16:16:45

with the input signal amplitude set 3 dB above the AGC
threshold Low Frequency: 799.0125MHz



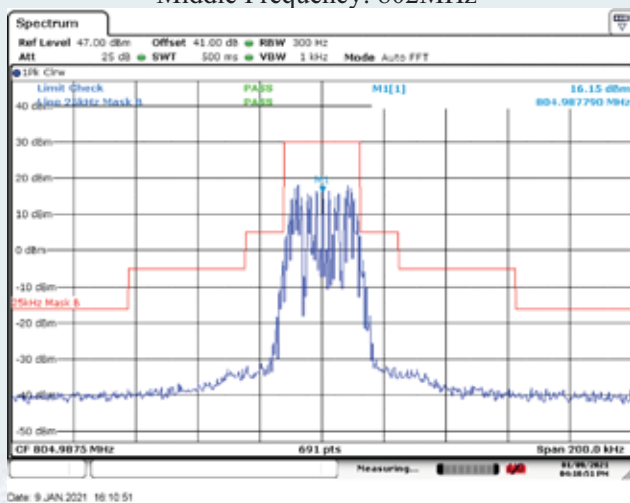
Date: 9 JAN 2021 16:13:35

with the input signal amplitude set the AGC threshold
Middle Frequency: 802MHz



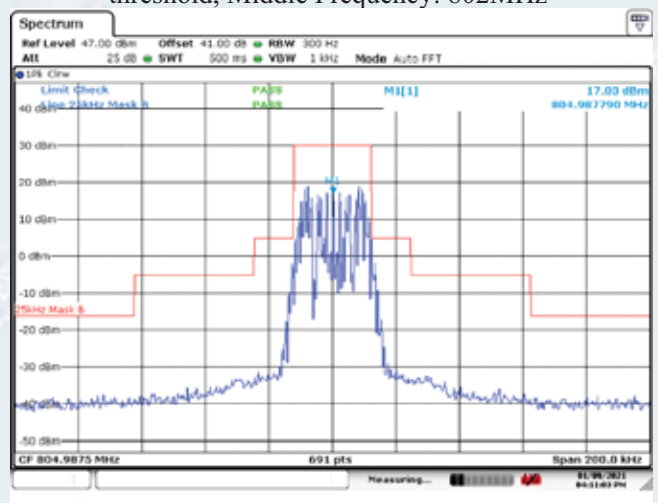
Date: 9 JAN 2021 16:13:16

with the input signal amplitude set 3 dB above the AGC
threshold, Middle Frequency: 802MHz



Date: 9 JAN 2021 16:10:51

with the input signal amplitude set the AGC threshold
High Frequency: 804.9875MHz



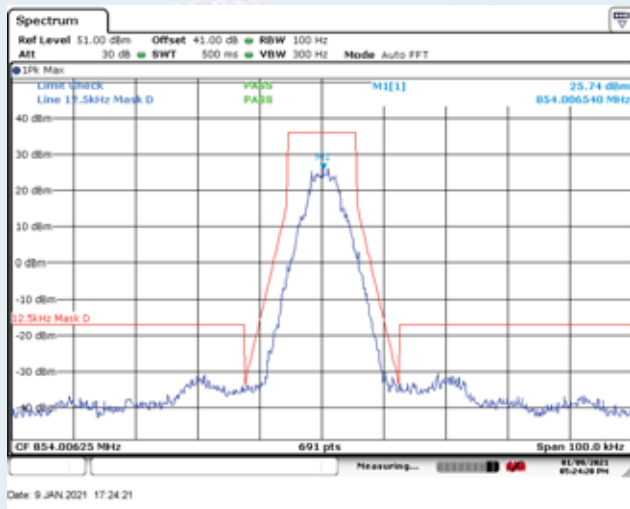
Date: 9 JAN 2021 16:11:00

with the input signal amplitude set 3 dB above the AGC
threshold, High Frequency: 804.9875MHz

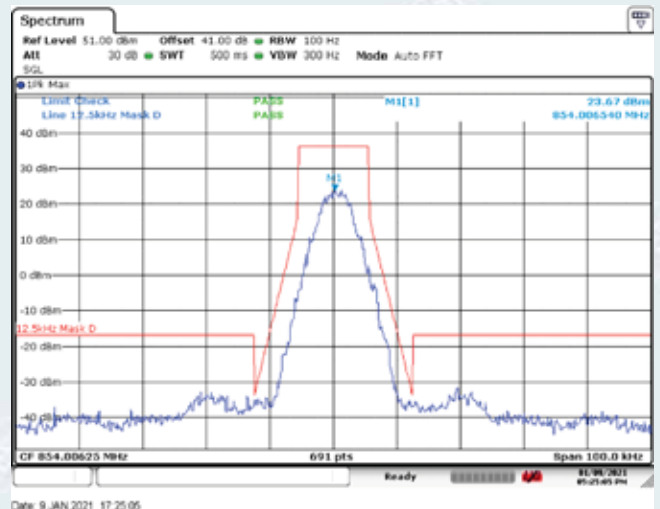
10.5.5.1.2 800MHz Band

10.5.5.1.2.1 C4FM mode (Mask D)

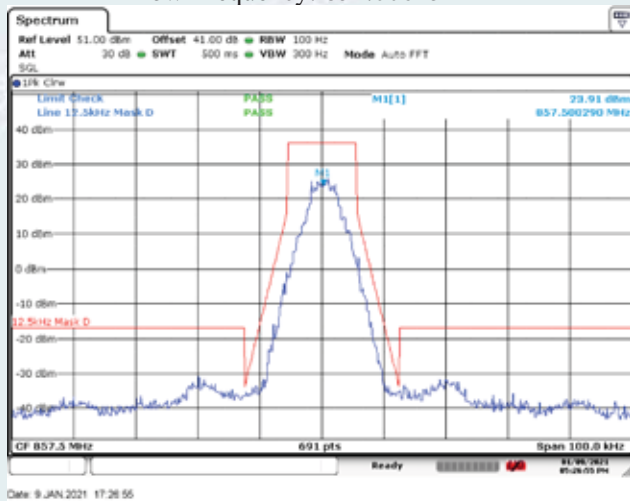
(1). Downlink transmit mode



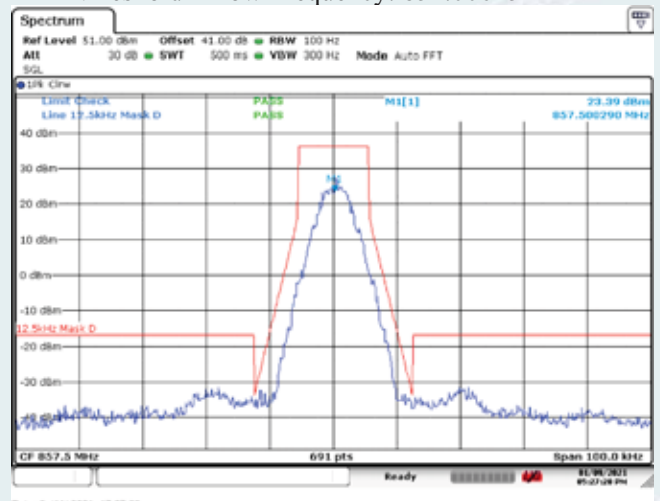
with the input signal amplitude set the AGC threshold
Low Frequency: 854.00625MHz



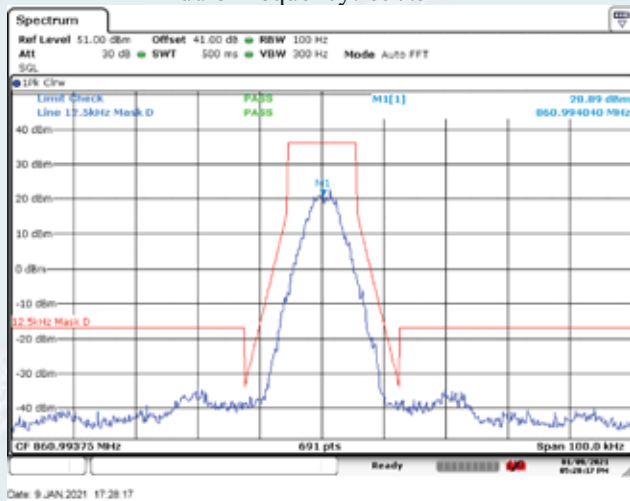
with the input signal amplitude set 3 dB above the AGC threshold
Low Frequency: 854.00625MHz



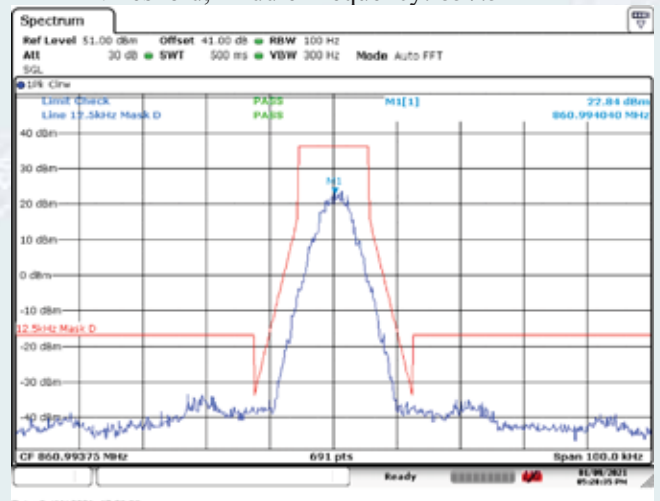
with the input signal amplitude set the AGC threshold
Middle Frequency: 857.5MHz



with the input signal amplitude set 3 dB above the AGC threshold,
Middle Frequency: 857.5MHz

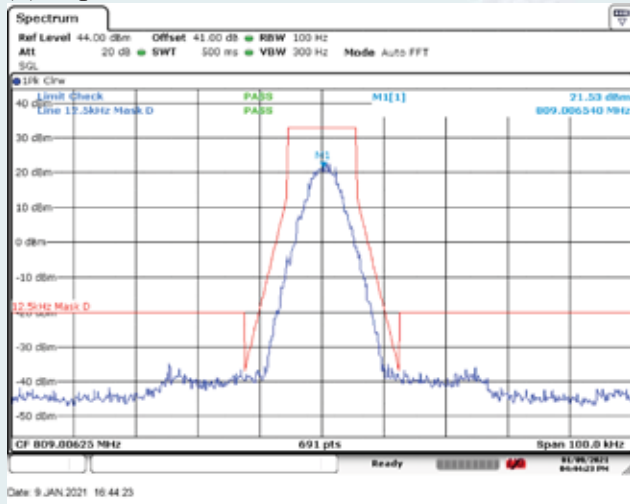


with the input signal amplitude set the AGC threshold
High Frequency: 860.99375MHz

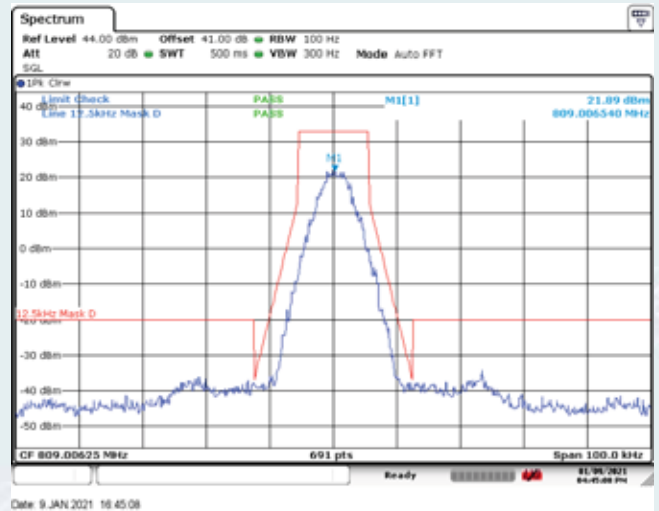


with the input signal amplitude set 3 dB above the AGC threshold,
High Frequency: 860.99375MHz

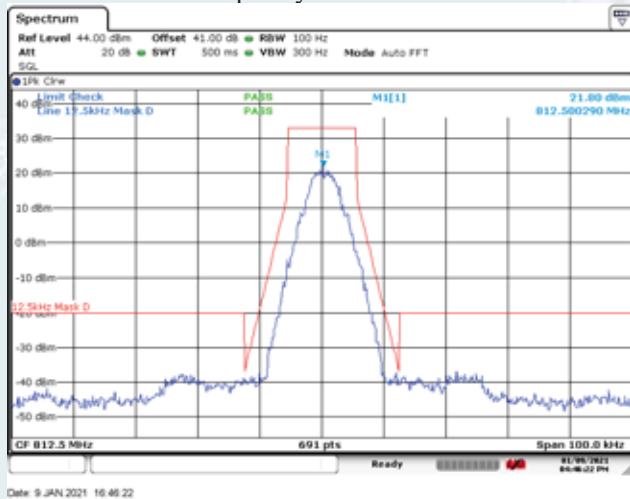
(2). Uplink transmit mode



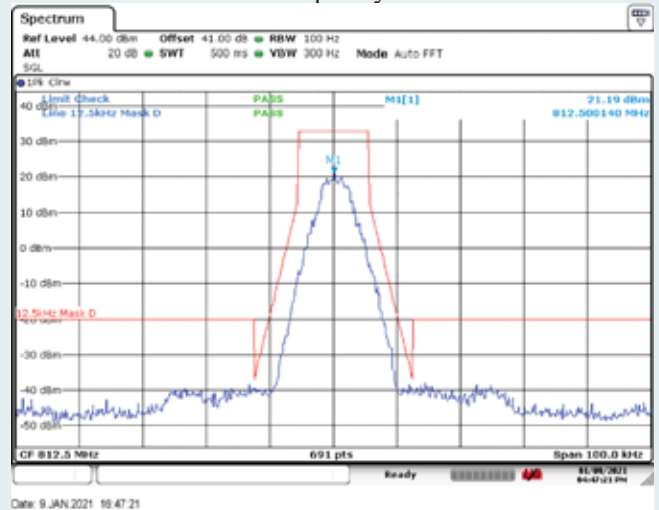
with the input signal amplitude set the AGC threshold
Low Frequency: 809.00625MHz



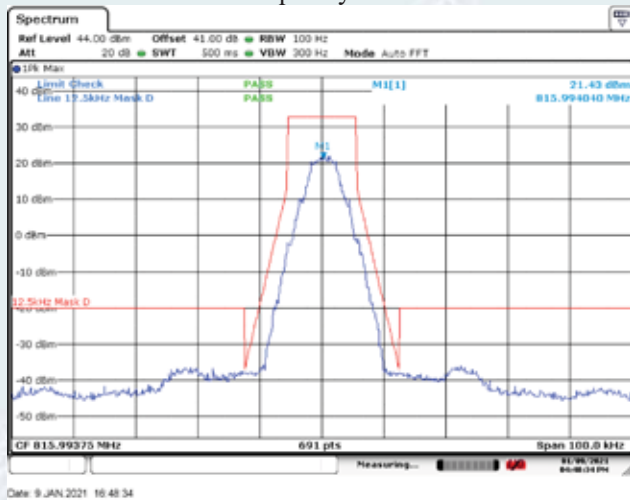
with the input signal amplitude set 3 dB above the AGC
threshold Low Frequency: 809.00625MHz



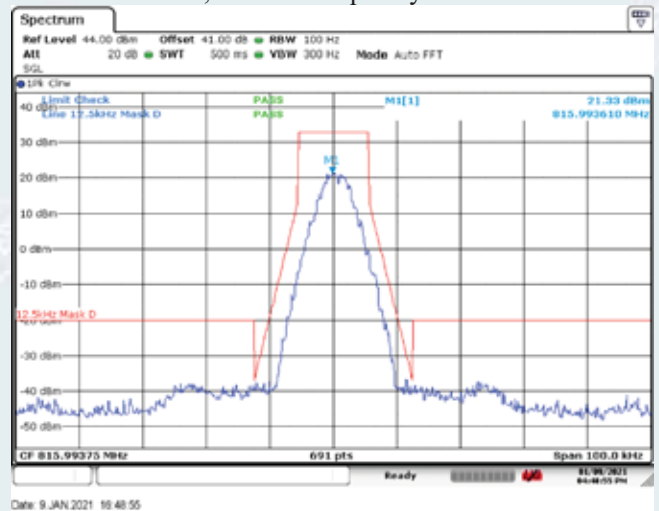
with the input signal amplitude set the AGC threshold
Middle Frequency: 812.5MHz



with the input signal amplitude set 3 dB above the AGC
threshold, Middle Frequency: 812.5MHz



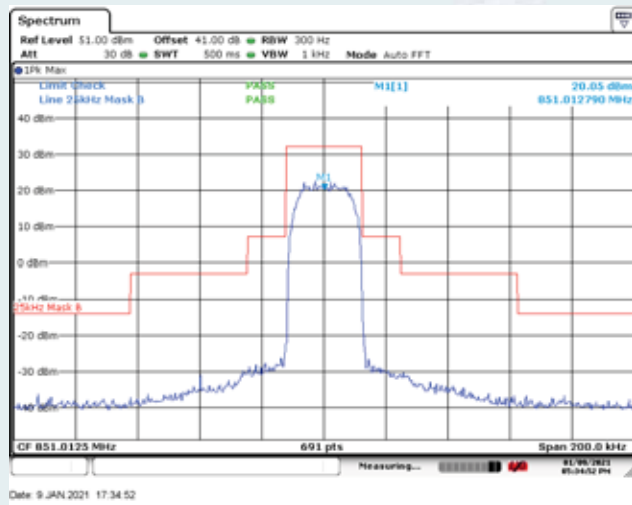
with the input signal amplitude set the AGC threshold
High Frequency: 815.99375MHz



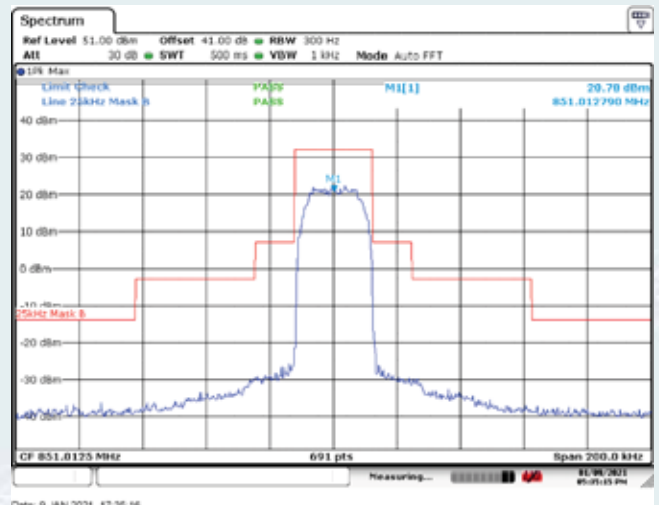
with the input signal amplitude set 3 dB above the AGC
threshold, High Frequency: 815.99375MHz

10.5.5.1.2.2 TETRA mode

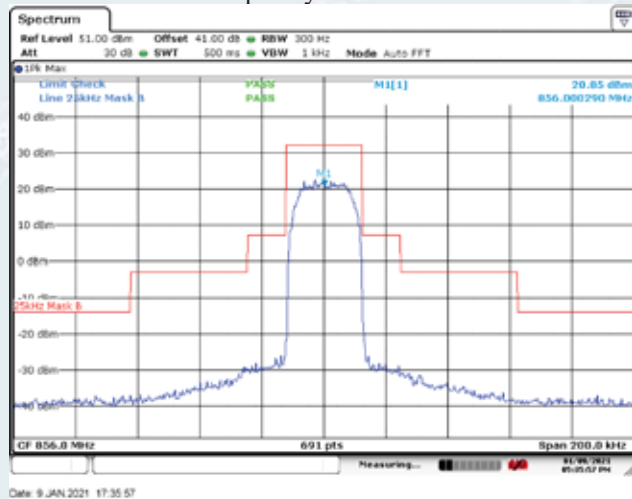
(1). Downlink transmit mode



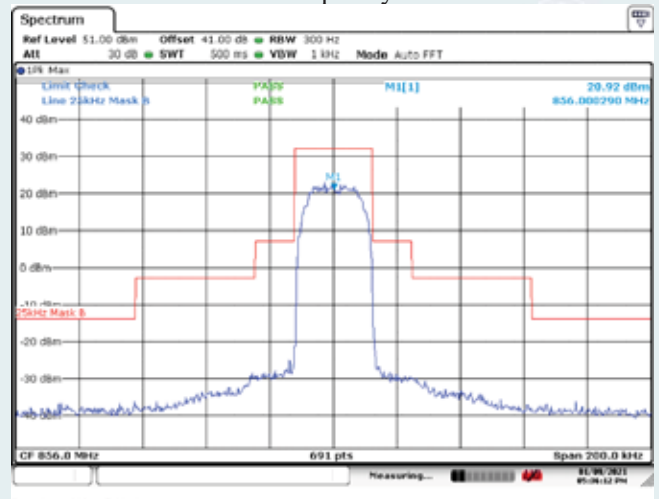
with the input signal amplitude set the AGC threshold
Low Frequency: 851.0125MHz



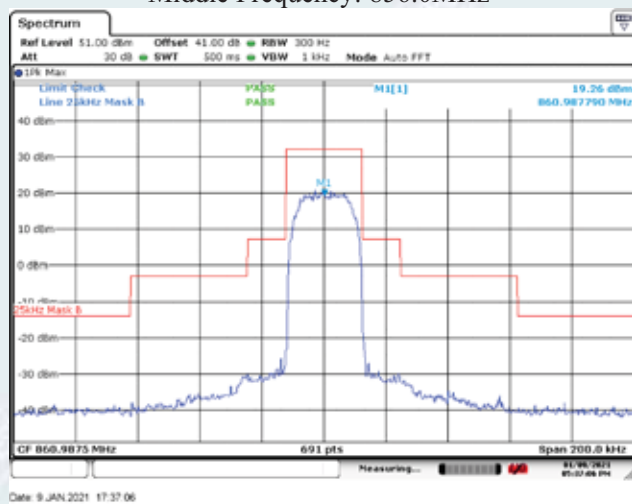
with the input signal amplitude set 3 dB above the AGC threshold
Low Frequency: 851.0125MHz



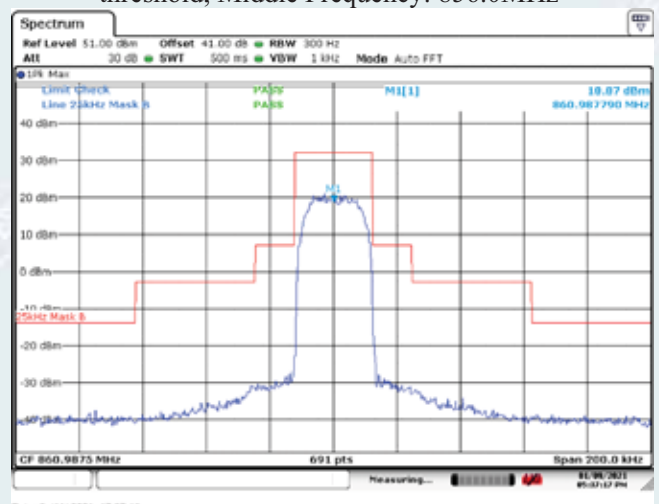
with the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz



with the input signal amplitude set 3 dB above the AGC threshold, Middle Frequency: 856.0MHz

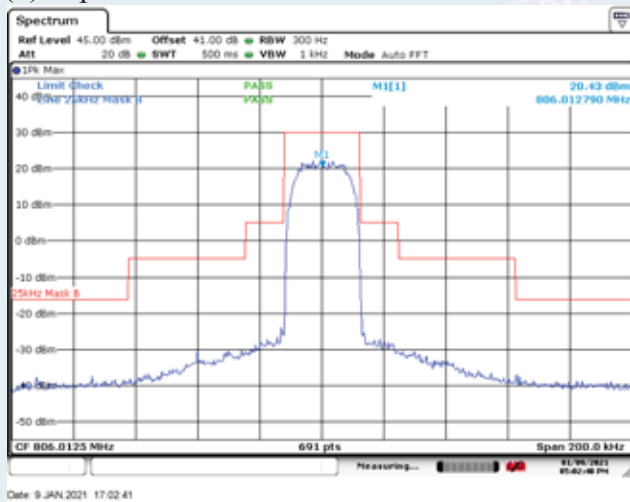


with the input signal amplitude set the AGC threshold
High Frequency: 860.9875MHz

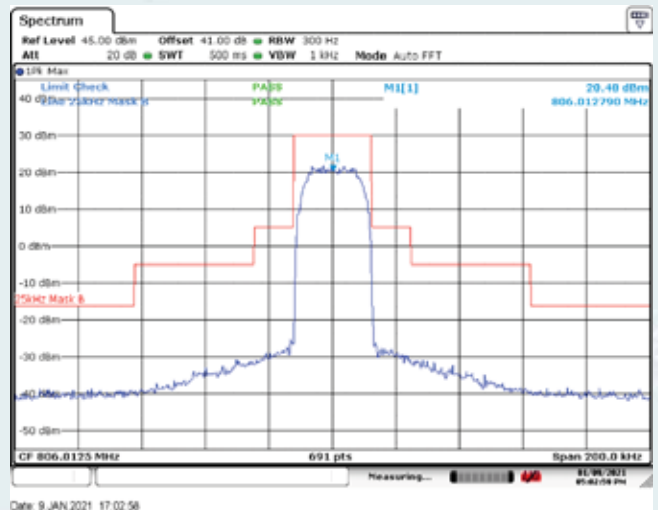


with the input signal amplitude set 3 dB above the AGC threshold, High Frequency: 860.9875MHz

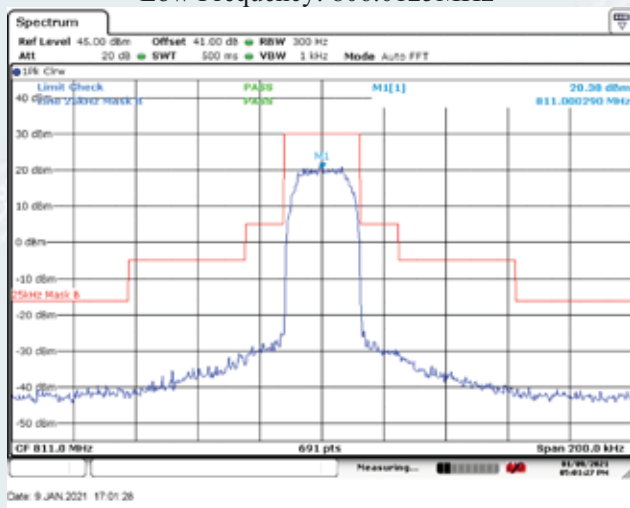
(2). Uplink transmit mode



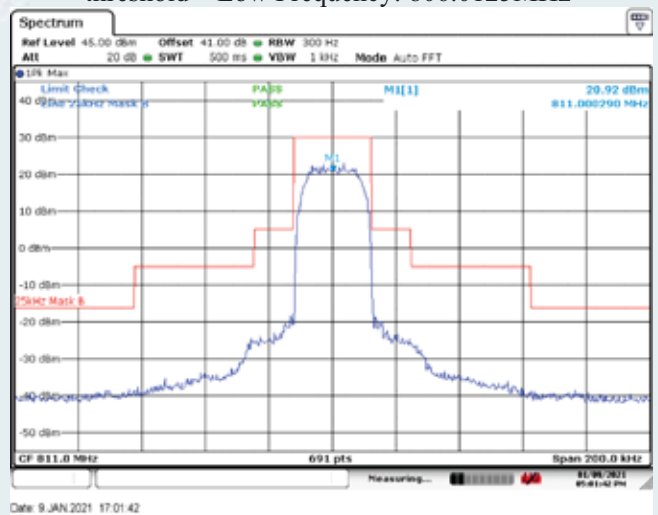
with the input signal amplitude set the AGC threshold
Low Frequency: 806.0125MHz



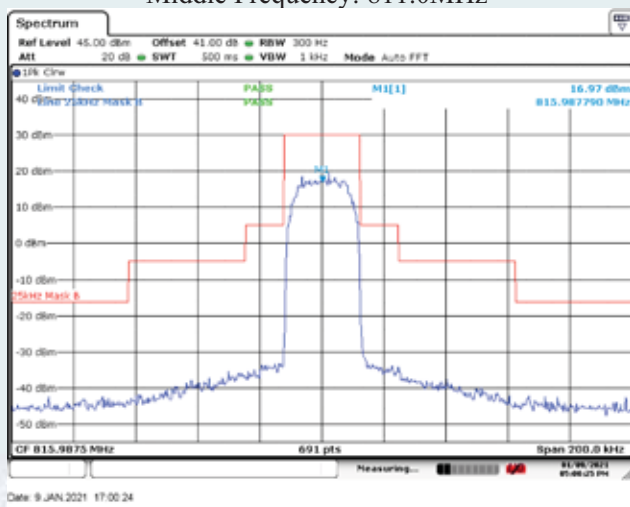
with the input signal amplitude set 3 dB above the AGC threshold
Low Frequency: 806.0125MHz



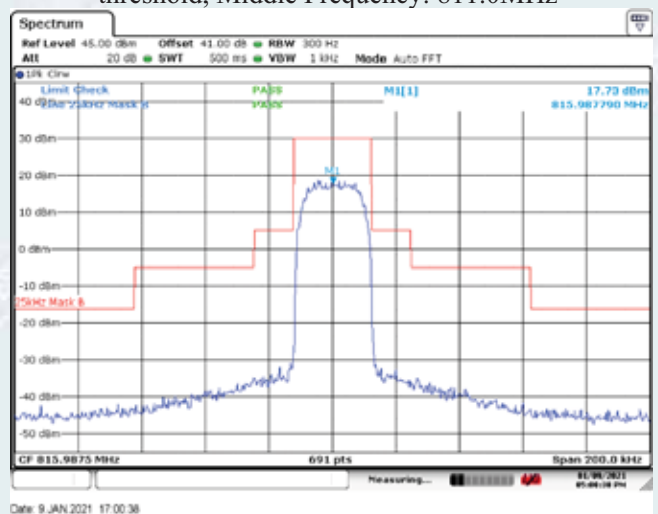
with the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



with the input signal amplitude set 3 dB above the AGC threshold, Middle Frequency: 811.0MHz



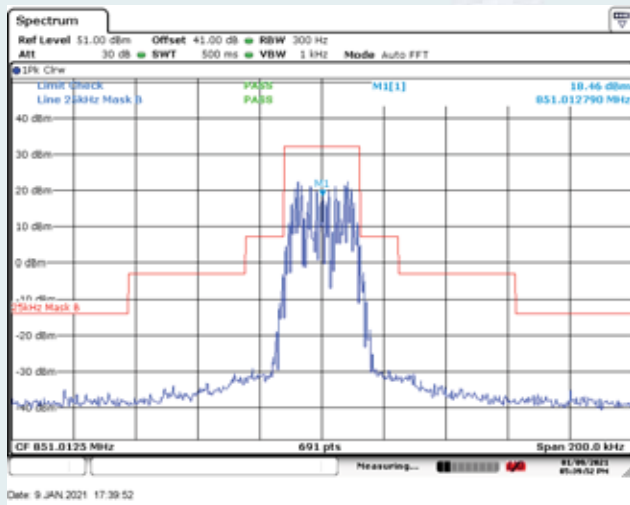
with the input signal amplitude set the AGC threshold
High Frequency: 815.9875MHz



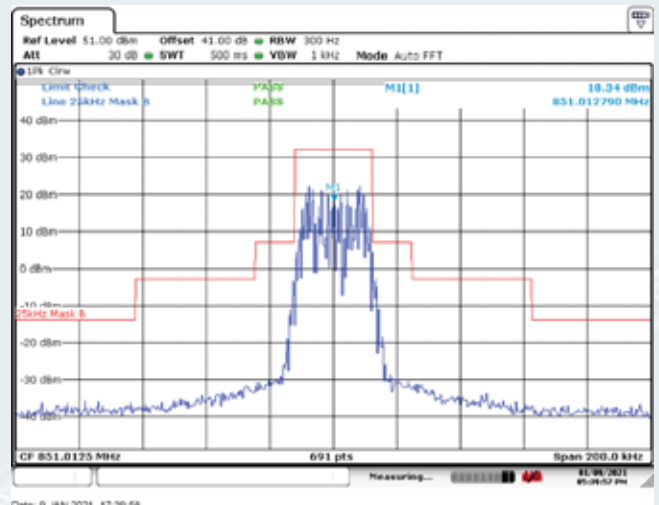
with the input signal amplitude set 3 dB above the AGC threshold, High Frequency: 815.9875MHz

10.5.5.1.2.3 Analog FM mode

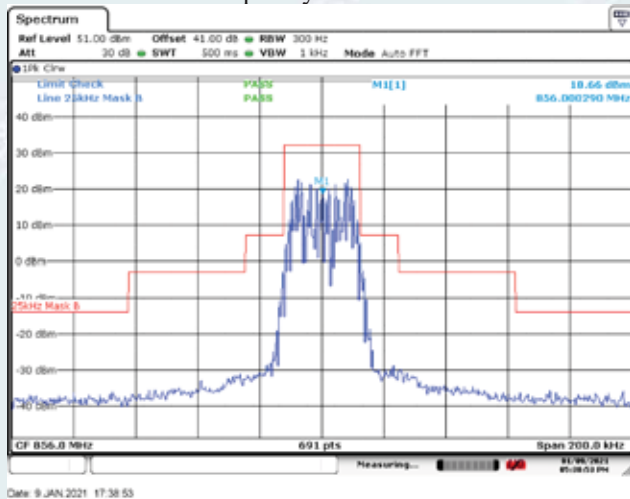
(1). Downlink transmit mode



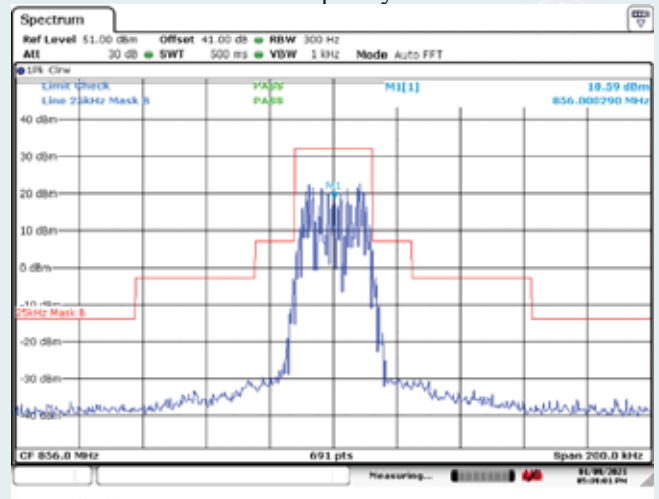
with the input signal amplitude set the AGC threshold
Low Frequency: 851.0125MHz



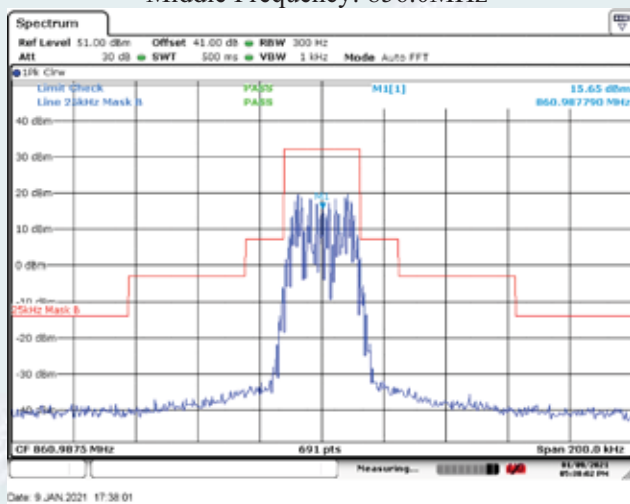
with the input signal amplitude set 3 dB above the AGC threshold
Low Frequency: 851.0125MHz



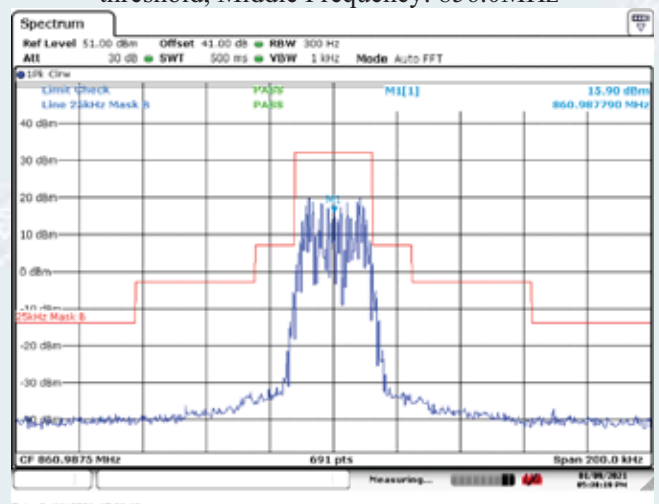
with the input signal amplitude set the AGC threshold
Middle Frequency: 856.0MHz



with the input signal amplitude set 3 dB above the AGC threshold,
Middle Frequency: 856.0MHz

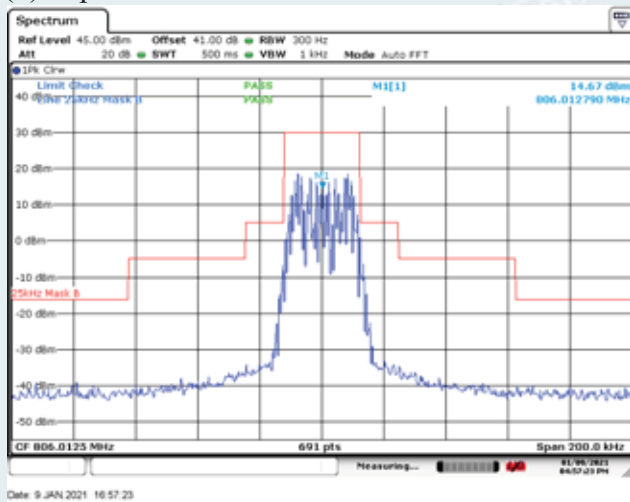


with the input signal amplitude set the AGC threshold
High Frequency: 860.9875MHz

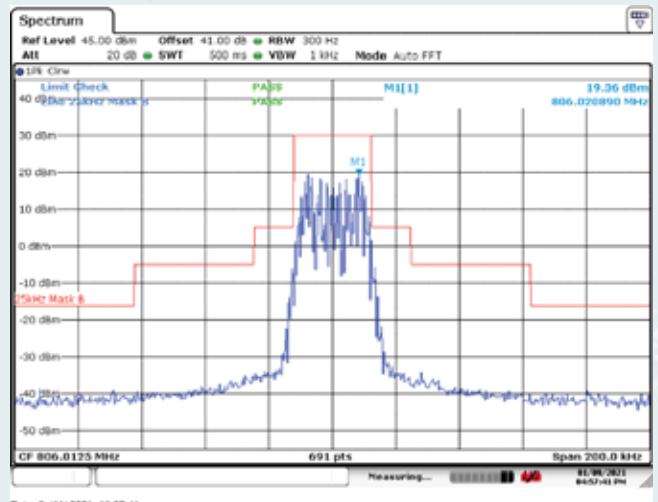


with the input signal amplitude set 3 dB above the AGC threshold,
High Frequency: 860.9875MHz

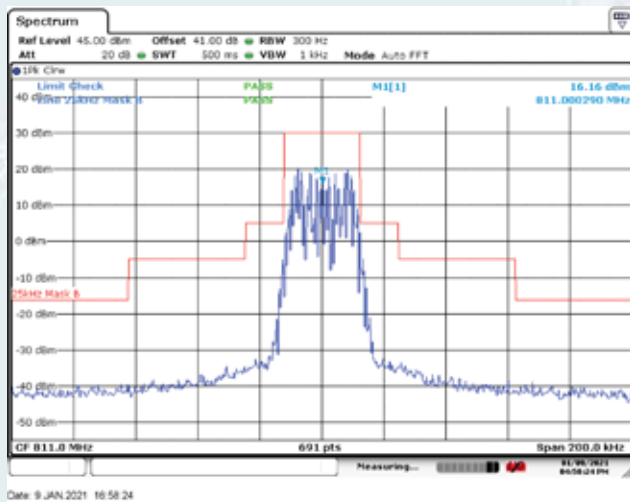
(2). Uplink transmit mode



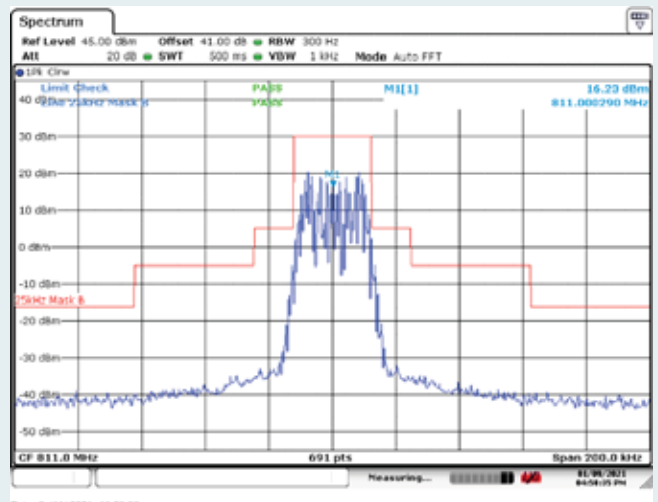
with the input signal amplitude set the AGC threshold
Low Frequency: 806.0125MHz



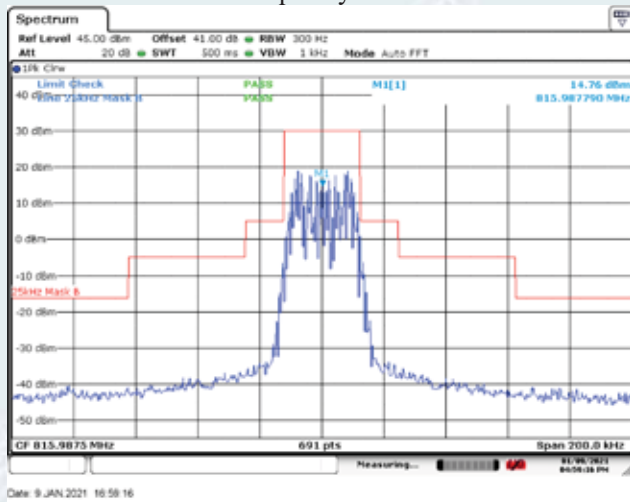
with the input signal amplitude set 3 dB above the AGC threshold
Low Frequency: 806.0125MHz



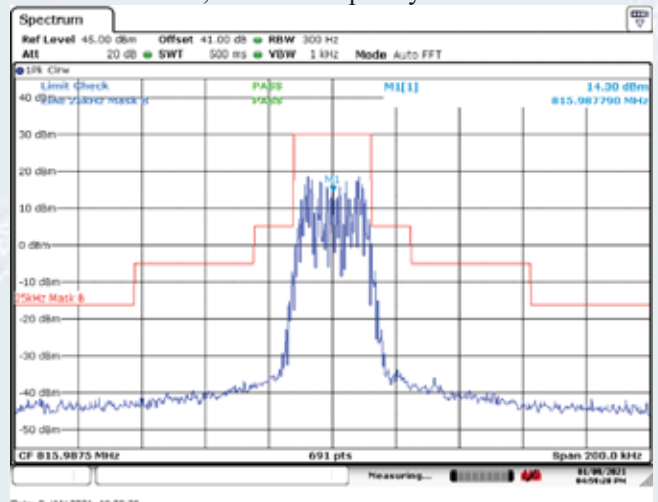
with the input signal amplitude set the AGC threshold
Middle Frequency: 811.0MHz



with the input signal amplitude set 3 dB above the AGC threshold,
Middle Frequency: 811.0MHz



with the input signal amplitude set the AGC threshold
High Frequency: 815.9875MHz



with the input signal amplitude set 3 dB above the AGC threshold,
High Frequency: 815.9875MHz

10.5.5.2 Occupied bandwidth

10.5.5.2.1 700MHz Band

10.5.5.2.1.1 LTE mode

10.5.5.2.1.1.1 Downlink



Frequency: 763.0MHz, Output occupied BW(AGC)



Frequency: 763.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.1.2 Uplink



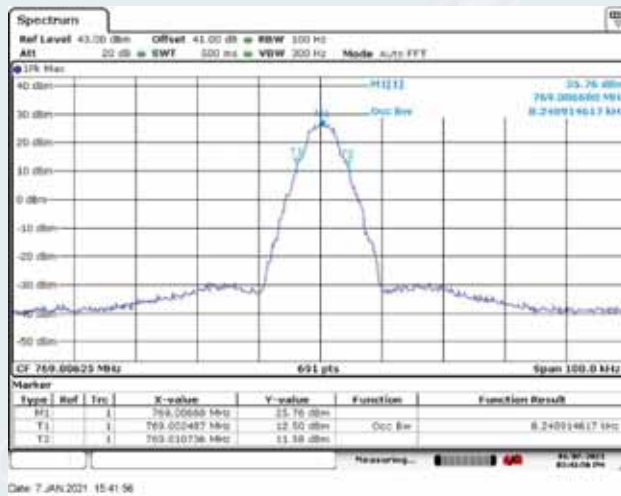
Frequency: 793.0MHz, Output occupied BW(AGC)



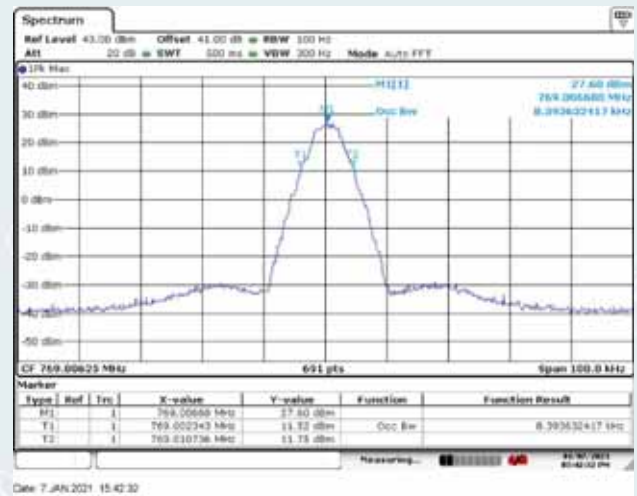
Frequency: 793.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.2 C4FM mode

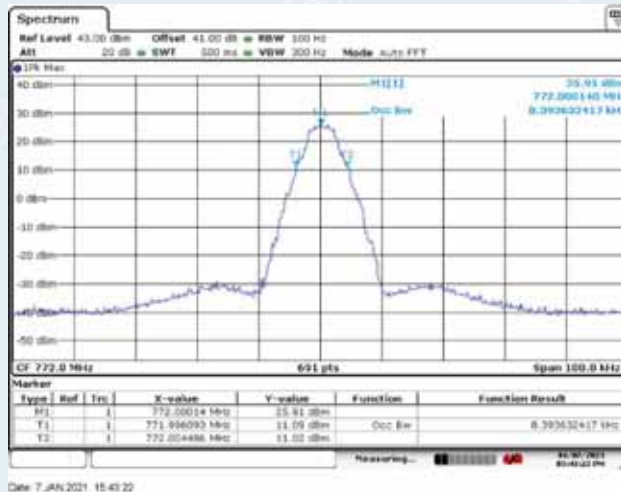
10.5.5.2.1.2.1 Downlink



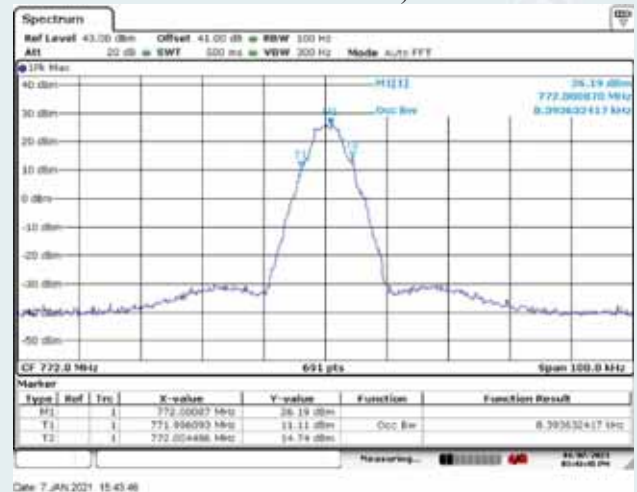
Low Frequency: 769.00625MHz, Output occupied BW(AGC)



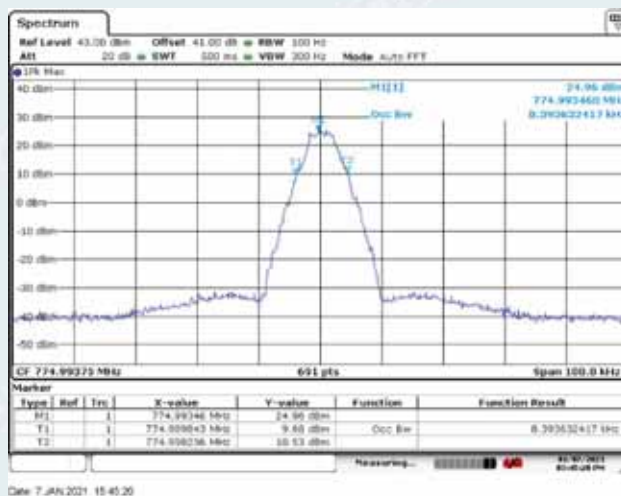
Low Frequency: 769.00625MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



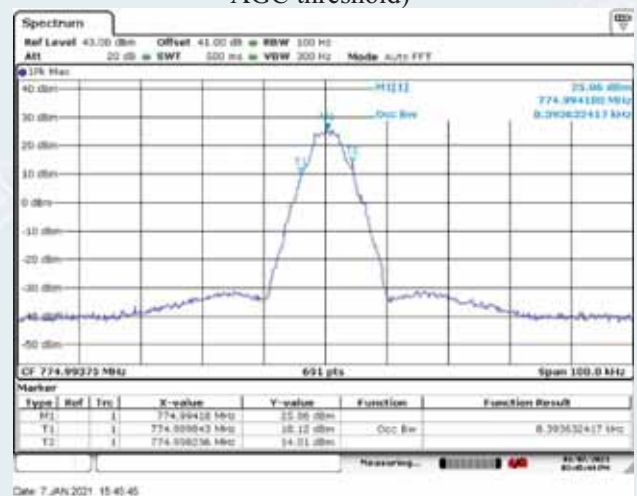
Middle Frequency: 772.0MHz, Output occupied BW(AGC)



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



High Frequency: 774.99375MHz, Output occupied BW(AGC)



High Frequency: 774.99375MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.2.2 Uplink



Low Frequency: 799.00625MHz, Output occupied BW(AGC)



Low Frequency: 799.00625MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



Middle Frequency: 802.0MHz, Output occupied BW(AGC)



Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



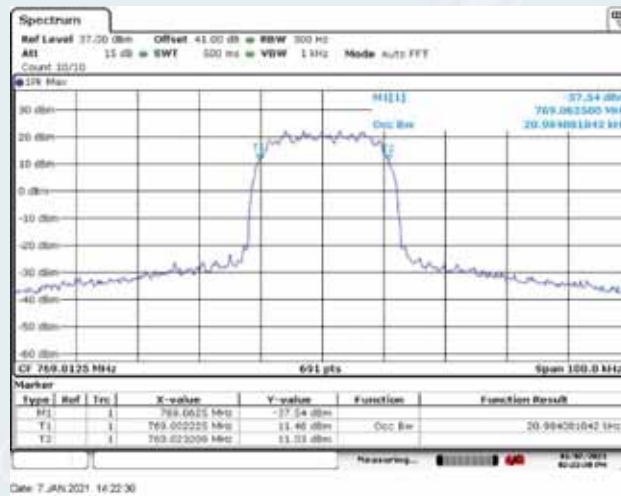
High Frequency: 804.99375MHz, Output occupied BW(AGC)



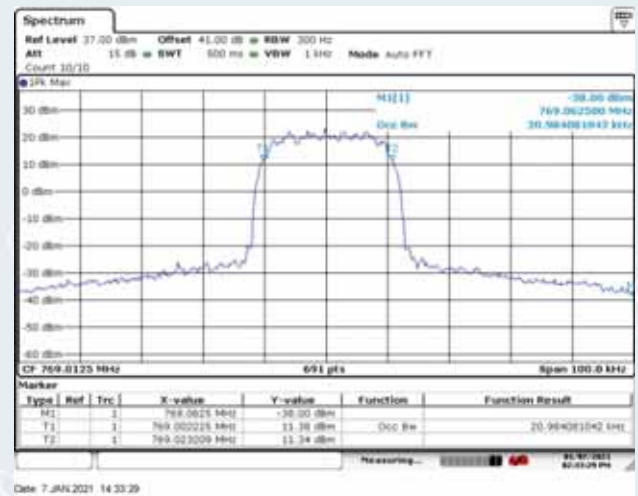
High Frequency: 804.99375MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.3 TETRA mode

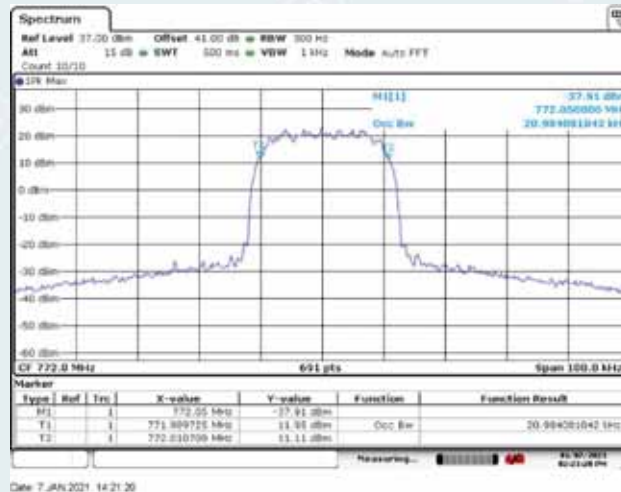
10.5.5.2.1.3.1 Downlink



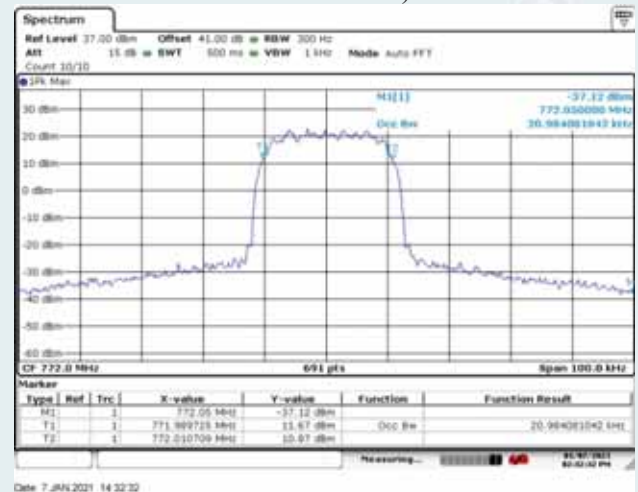
Low Frequency: 769.0125MHz, Output occupied BW(AGC)



Low Frequency: 769.0125MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



Middle Frequency: 772.0MHz, Output occupied BW(AGC)



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

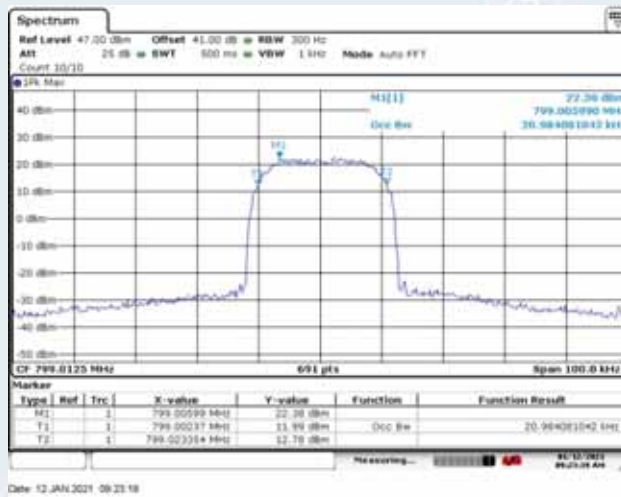


High Frequency: 774.9875MHz, Output occupied BW(AGC)

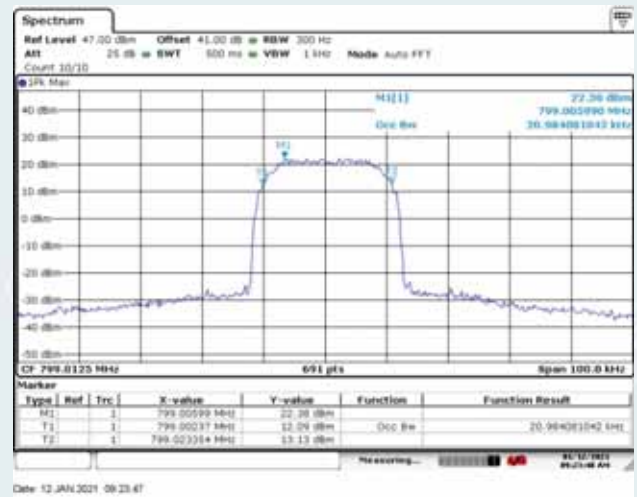


High Frequency: 774.9875MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

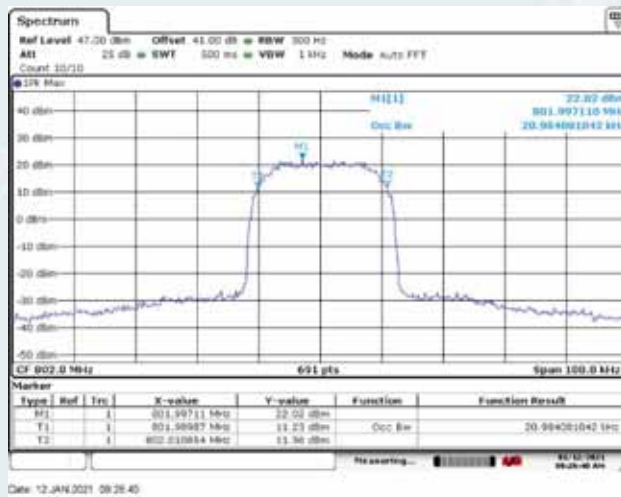
10.5.5.2.1.3.2 Uplink



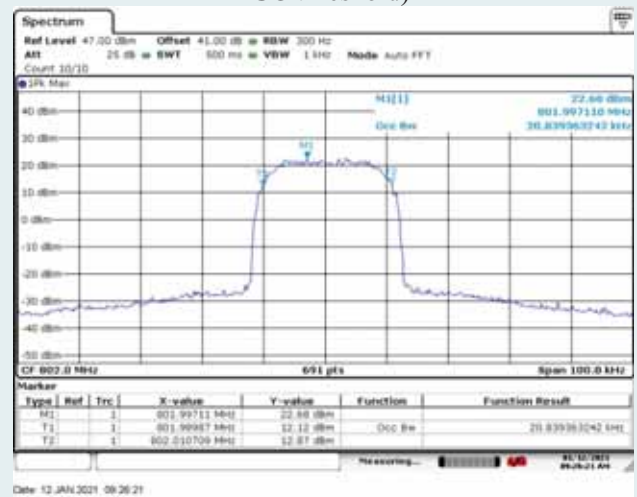
Low Frequency: 799.0125MHz, Output occupied BW(AGC)



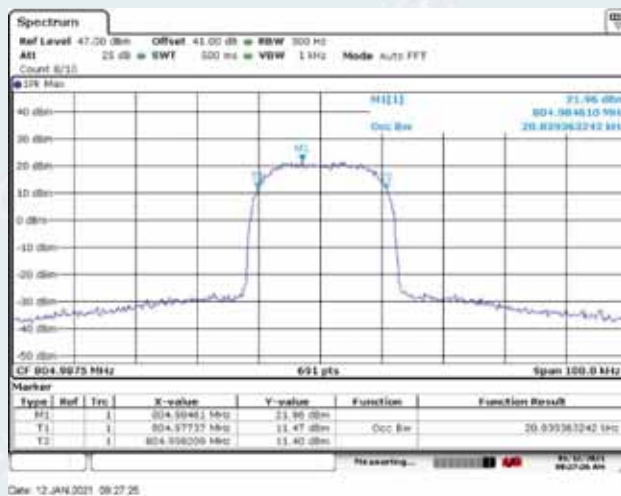
Low Frequency: 799.0125MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



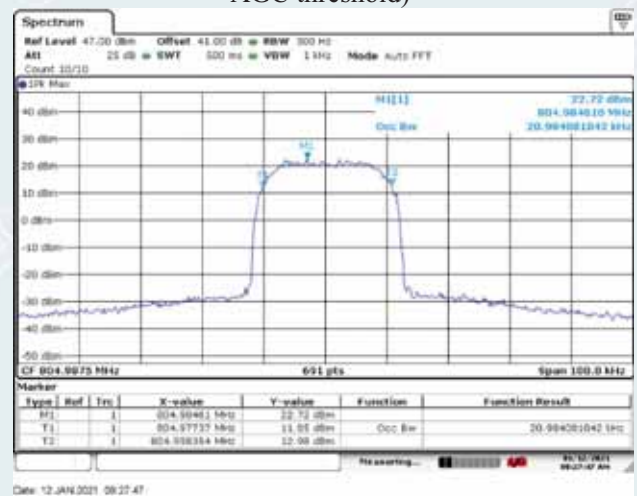
Middle Frequency: 802.0MHz, Output occupied BW(AGC)



Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



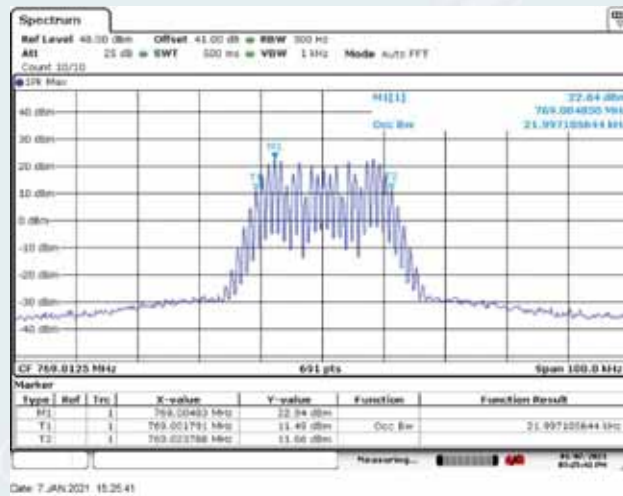
High Frequency: 804.9875MHz, Output occupied BW(AGC)



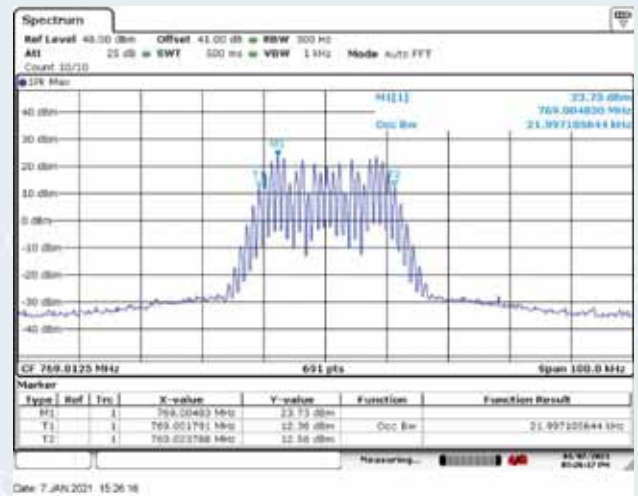
High Frequency: 804.9875MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.1.4 Analog FM mode

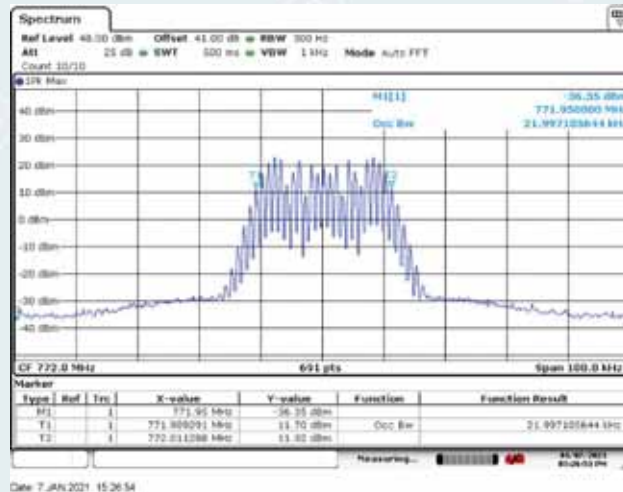
10.5.5.2.1.4.1 Downlink



Low Frequency: 769.0125MHz, Output occupied BW(AGC)



Low Frequency: 769.0125MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



Middle Frequency: 772.0MHz, Output occupied BW(AGC)



Middle Frequency: 772.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

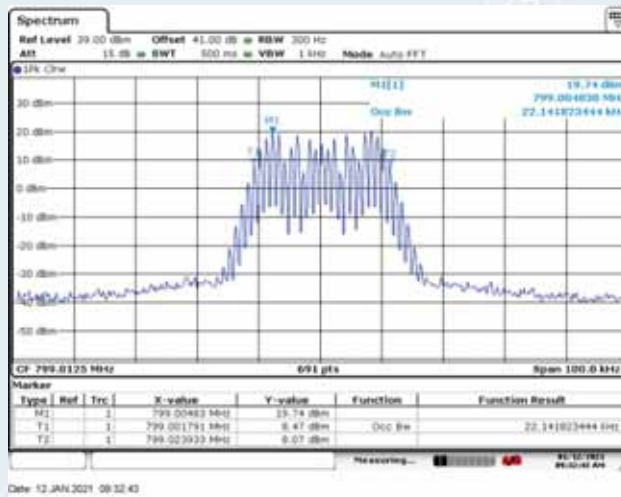


High Frequency: 774.9875MHz, Output occupied BW(AGC)

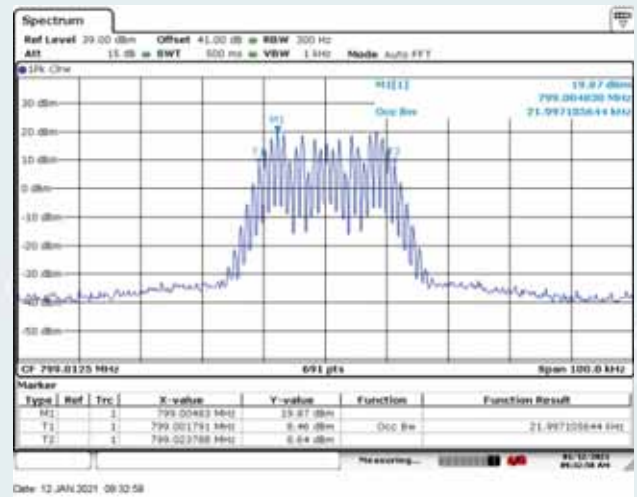


High Frequency: 774.9875MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

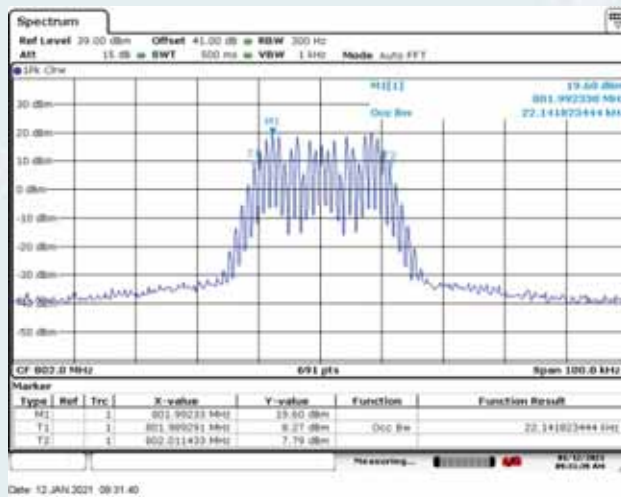
10.5.5.2.1.4.2 Uplink



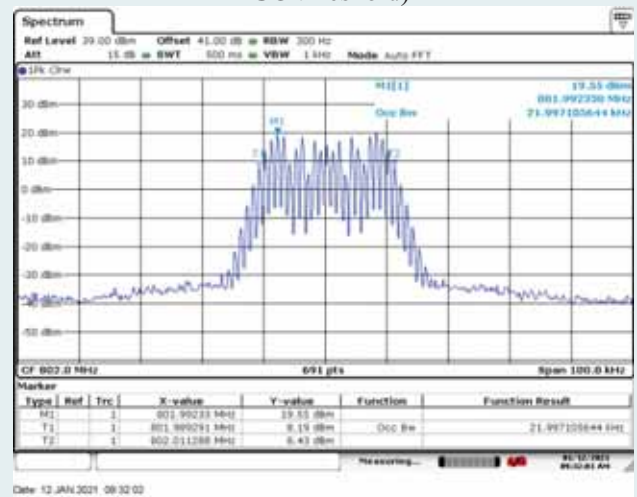
Low Frequency: 799.0125MHz, Output occupied BW(AGC)



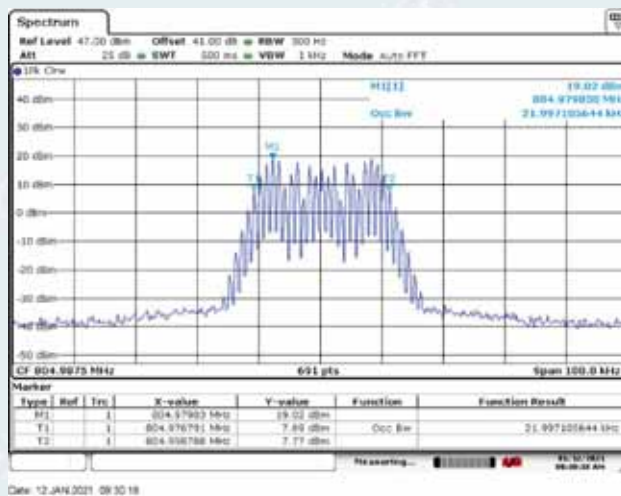
Low Frequency: 799.0125MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



Middle Frequency: 802.0MHz, Output occupied BW(AGC)



Middle Frequency: 802.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



High Frequency: 804.9875MHz, Output occupied BW(AGC)



High Frequency: 804.9875MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2 800MHz Band

10.5.5.2.2.1 C4FM mode

10.5.5.2.2.1.1 Downlink



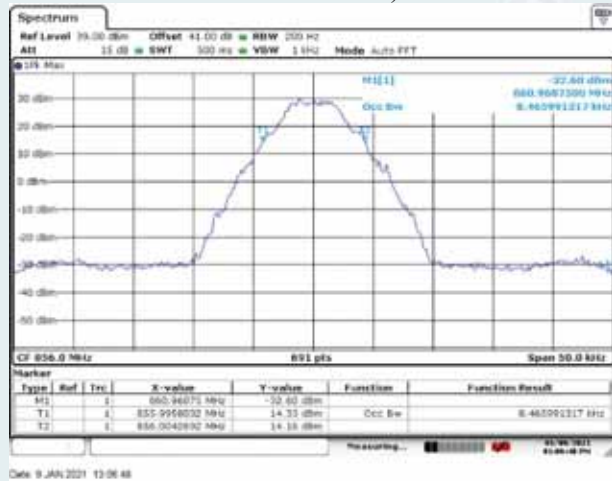
Low Frequency: 851.00625MHz, Output occupied BW(AGC)



Low Frequency: 851.00625MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



Middle Frequency: 856.0MHz, Output occupied BW(AGC)



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



High Frequency: 860.99375MHz, Output occupied BW(AGC)



High Frequency: 860.99375MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.1.2 Uplink



Low Frequency: 806.00625MHz, Output occupied BW(AGC)



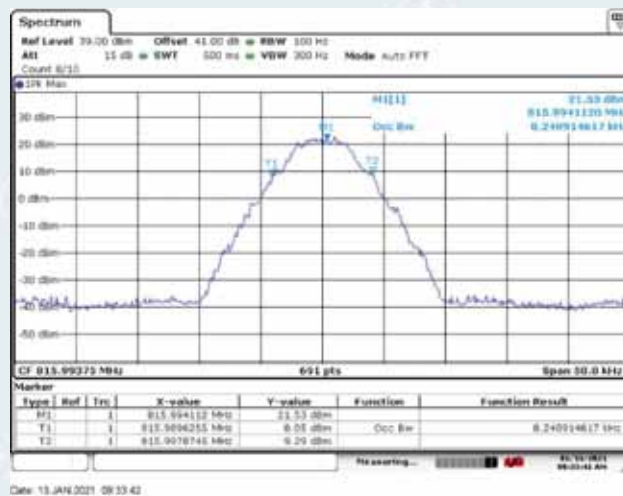
Low Frequency: 806.00625MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



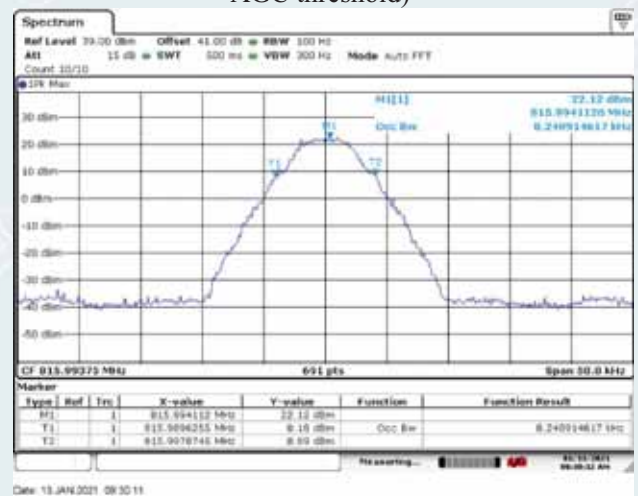
Middle Frequency: 811.0MHz, Output occupied BW(AGC)



Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



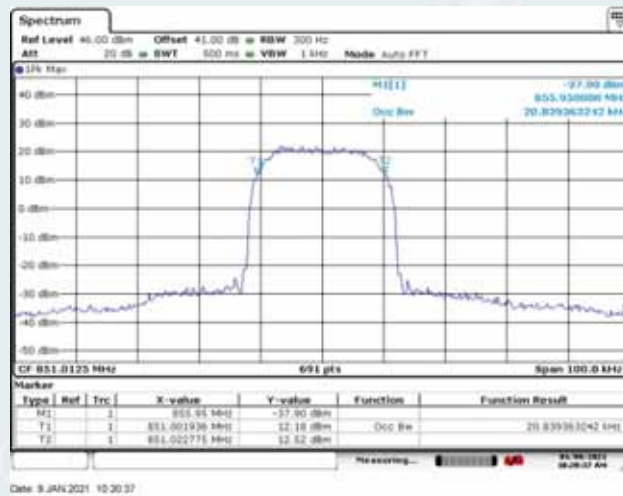
High Frequency: 815.99375MHz, Output occupied BW(AGC)



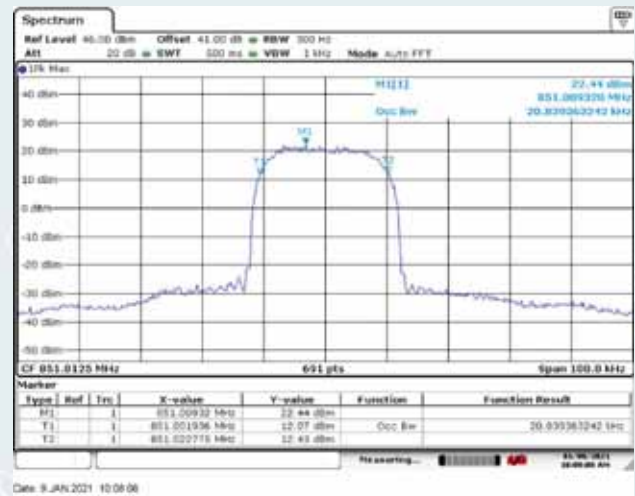
High Frequency: 815.99375MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.2 TETRA mode

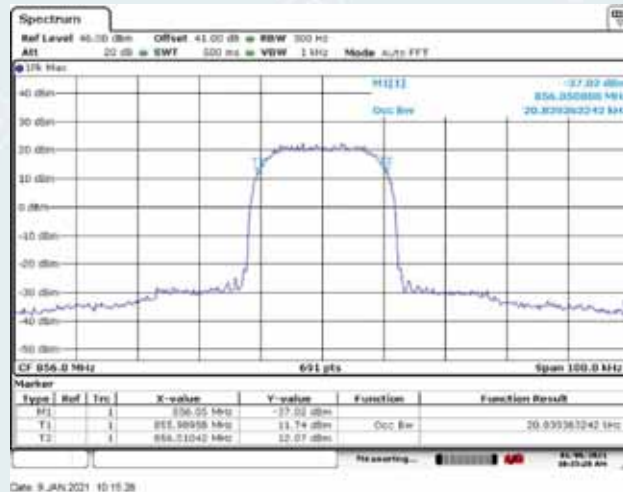
10.5.5.2.2.2.1 Downlink



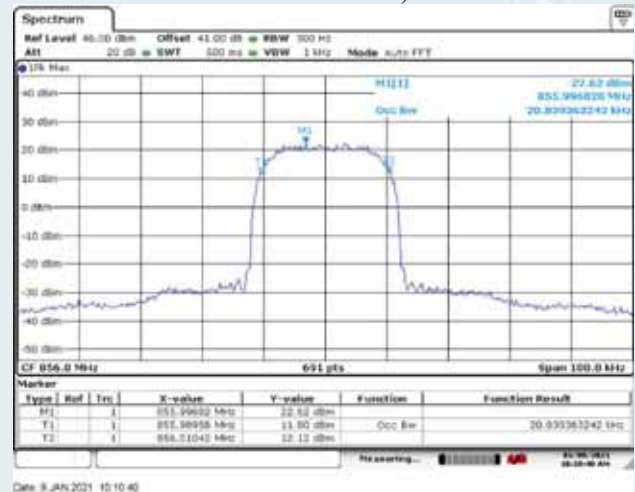
Low Frequency: 851.0125MHz, Output occupied BW(AGC)



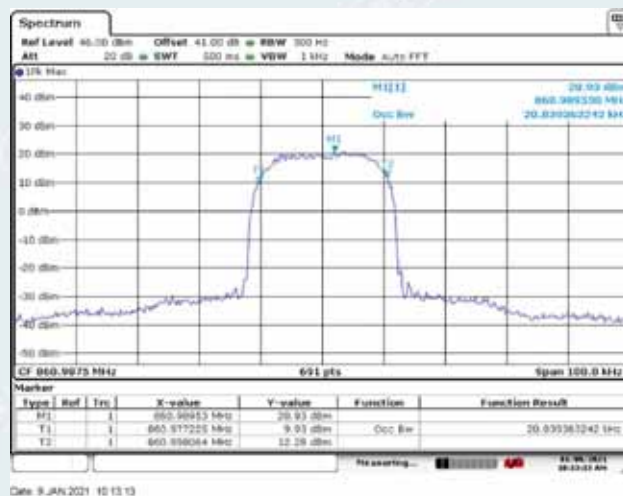
Low Frequency: 851.0125MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



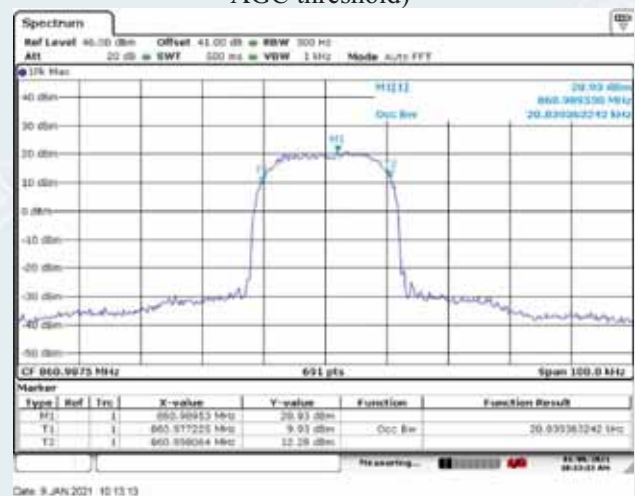
Middle Frequency: 856.0MHz, Output occupied BW(AGC)



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

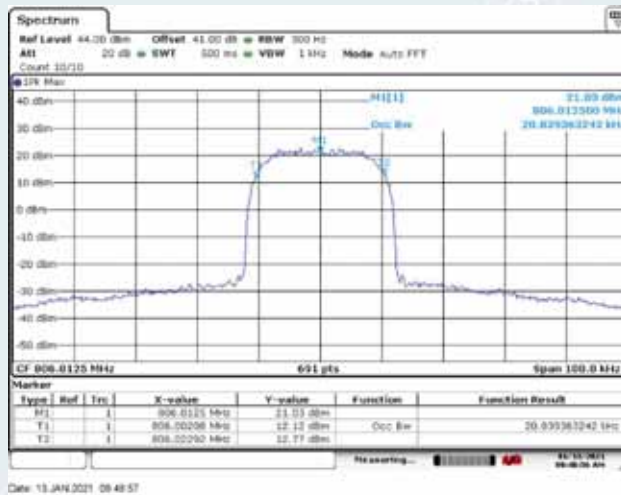


High Frequency: 860.9875MHz, Output occupied BW(AGC)

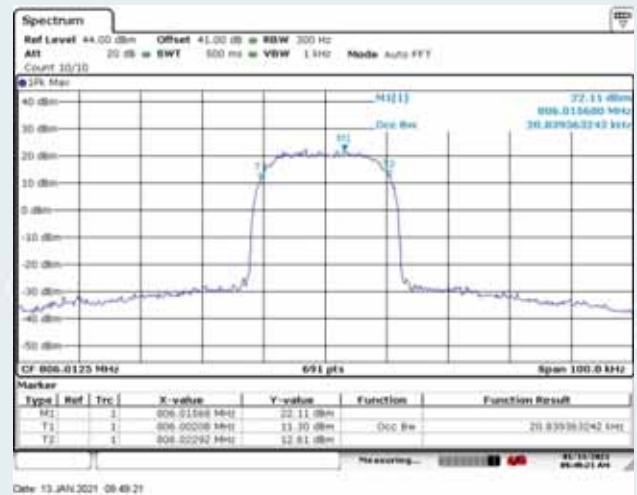


High Frequency: 860.9875MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.2 Uplink



Low Frequency: 806.0125MHz, Output occupied BW(AGC)



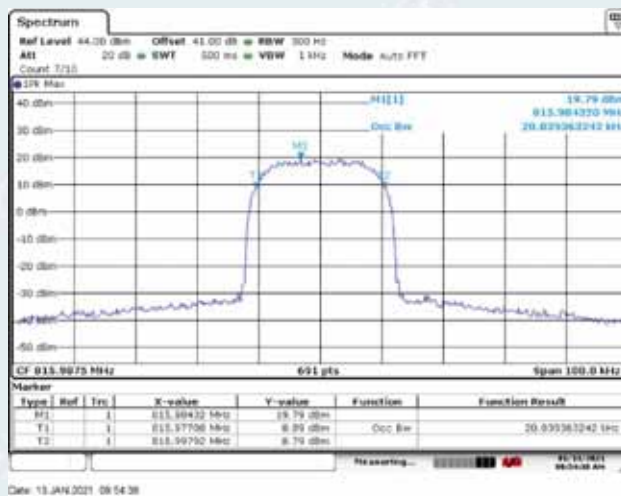
Low Frequency: 806.0125MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



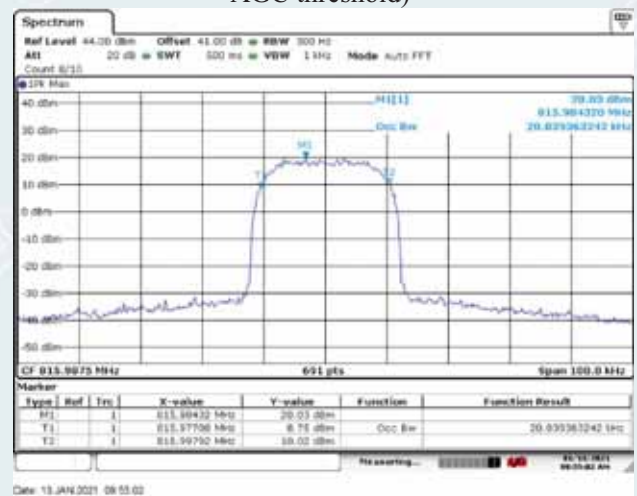
Middle Frequency: 811.0MHz, Output occupied BW(AGC)



Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



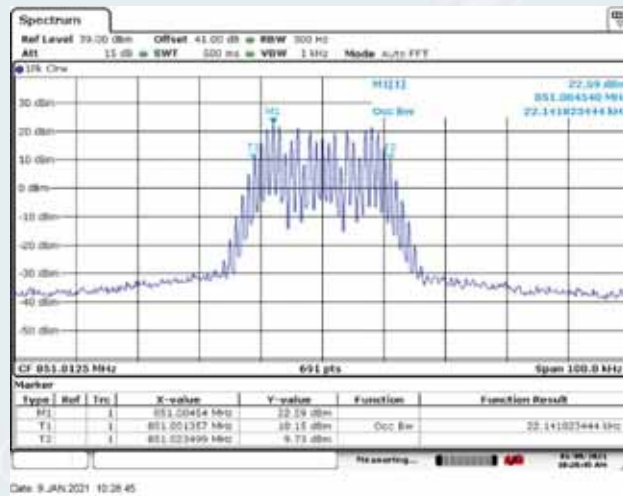
High Frequency: 815.9875MHz, Output occupied BW(AGC)



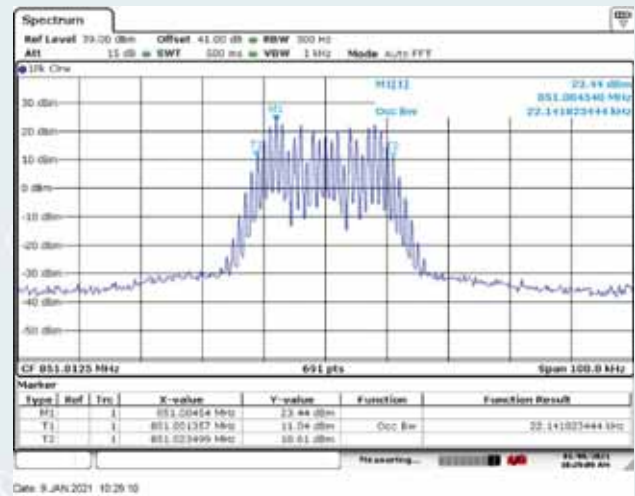
High Frequency: 815.9875MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.2.2.3 Analog FM mode

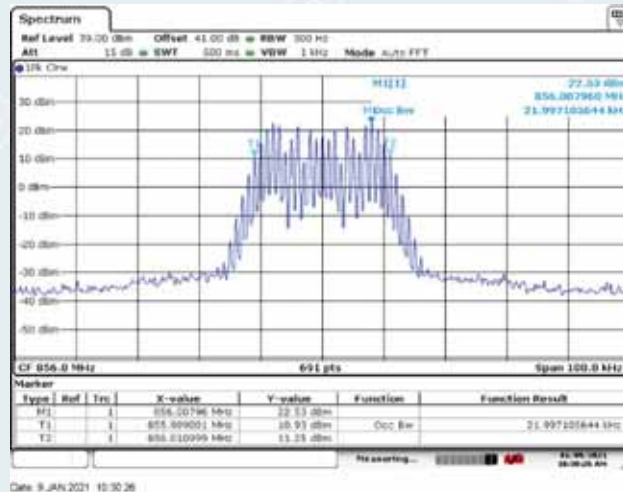
10.5.5.2.2.3.1 Downlink



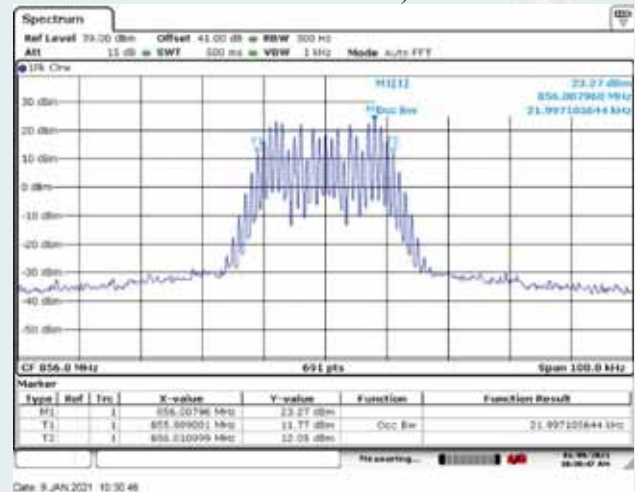
Low Frequency: 851.0125MHz, Output occupied BW(AGC)



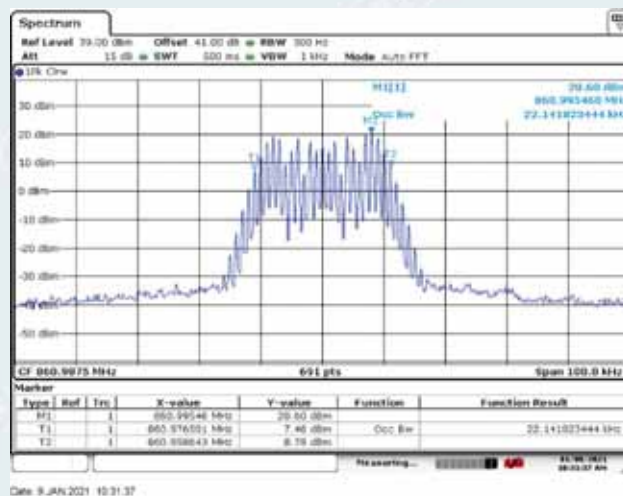
Low Frequency: 851.0125MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



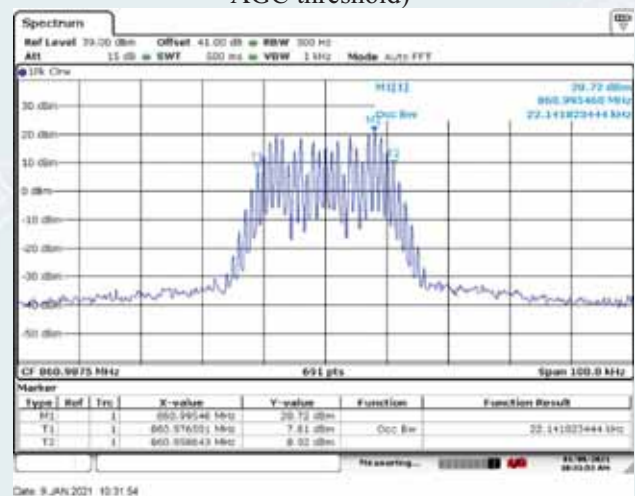
Middle Frequency: 856.0MHz, Output occupied BW(AGC)



Middle Frequency: 856.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

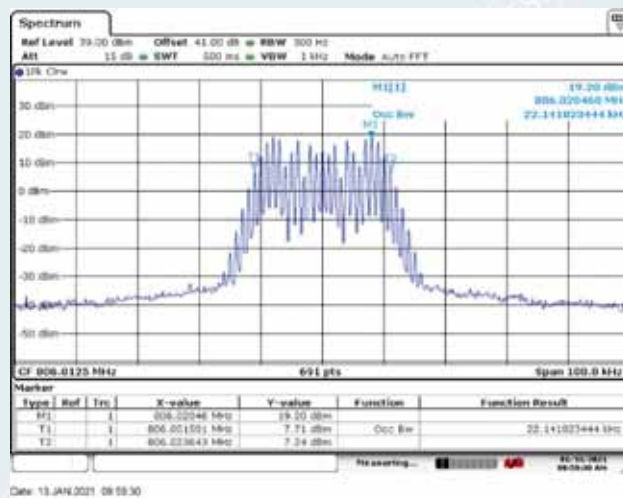


High Frequency: 860.9875MHz, Output occupied BW(AGC)

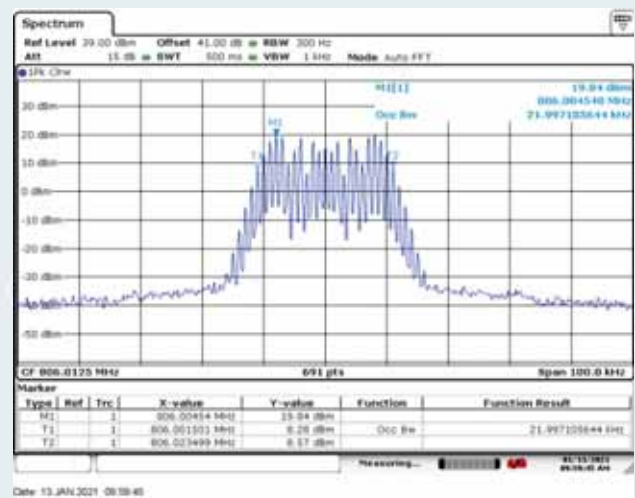


High Frequency: 860.9875MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

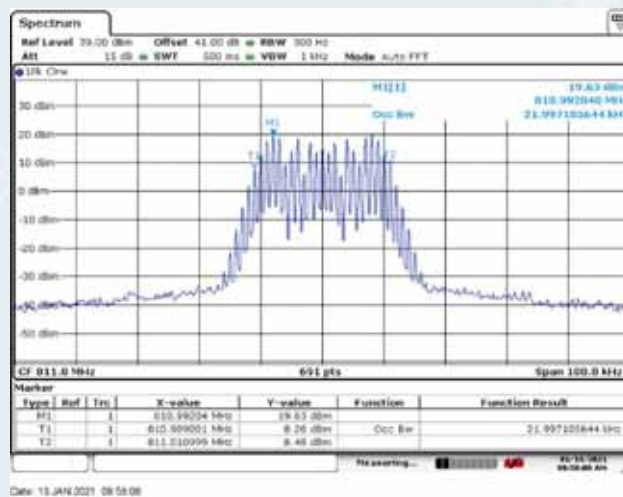
10.5.5.2.2.3.2 Uplink



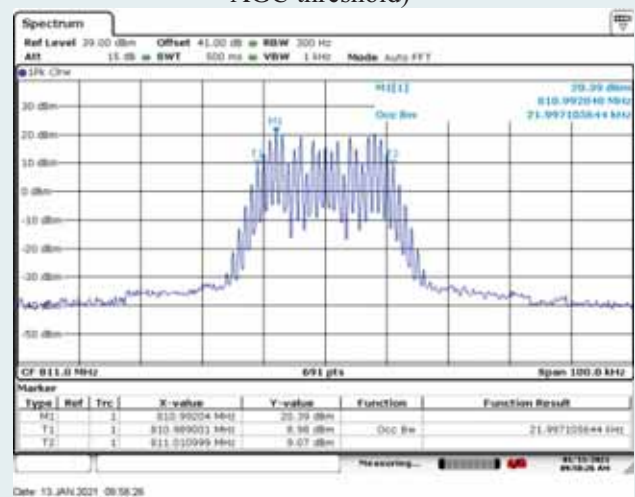
Low Frequency: 806.0125MHz, Output occupied BW(AGC)



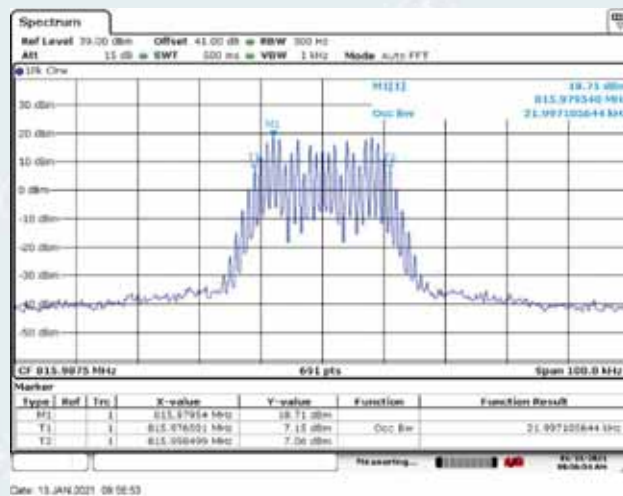
Low Frequency: 806.0125MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



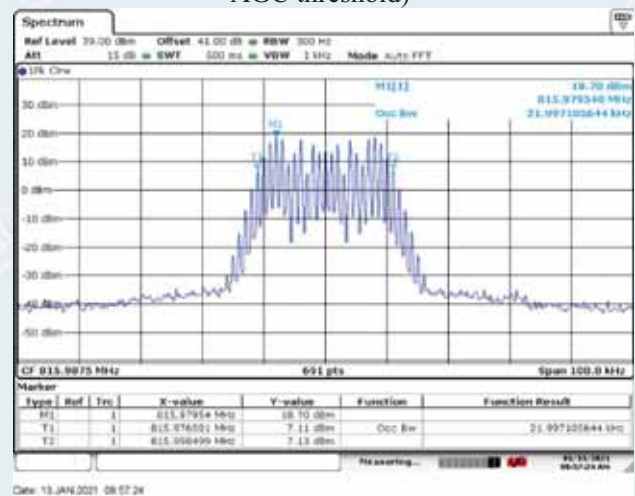
Middle Frequency: 811.0MHz, Output occupied BW(AGC)



Middle Frequency: 811.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)



High Frequency: 815.9875MHz, Output occupied BW(AGC)



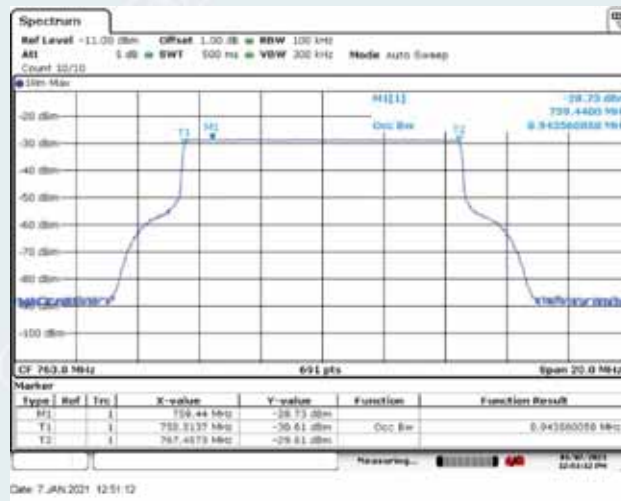
High Frequency: 815.9875MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3 Input VS output Comparison

10.5.5.3.1 700MHz Band

10.5.5.3.1.1 LTE mode

10.5.5.3.1.1.1 Downlink



Frequency: 763.0MHz, Input occupied BW

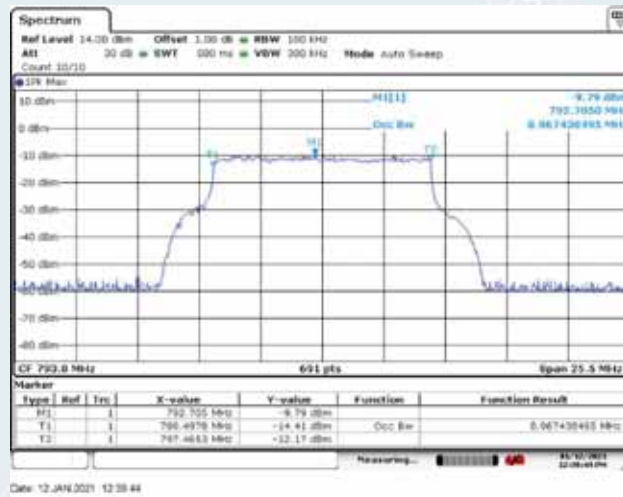


Frequency: 763.0MHz, Output occupied BW(AGC)



Frequency: 763.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.1.2 Uplink



Frequency: 793.0MHz, Input occupied BW



Frequency: 793.0MHz, Output occupied BW(AGC)



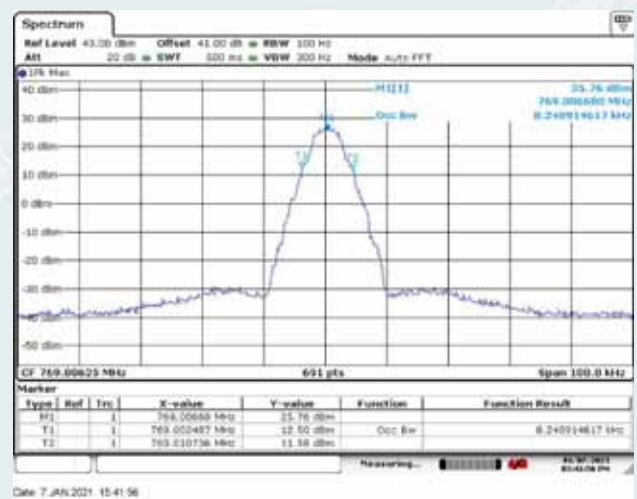
Frequency: 793.0MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.2 C4FM mode

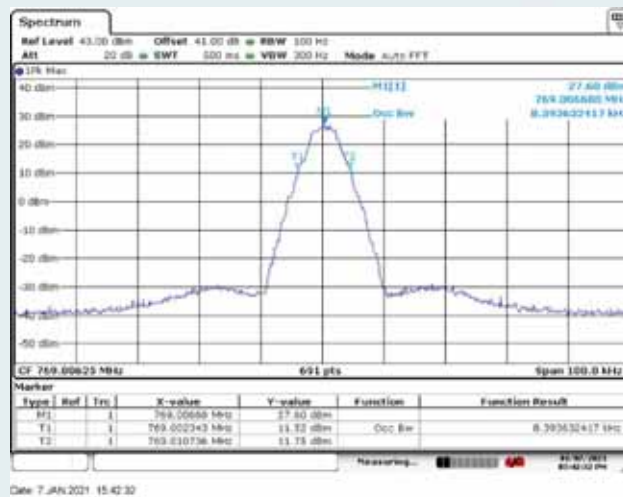
10.5.5.3.1.2.1 Downlink



Low Frequency: 769.00625MHz, Input occupied BW



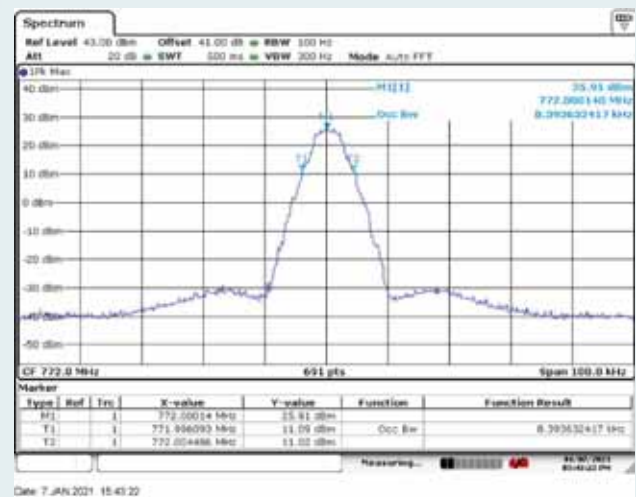
Low Frequency: 769.00625MHz, Output occupied BW(AGC)



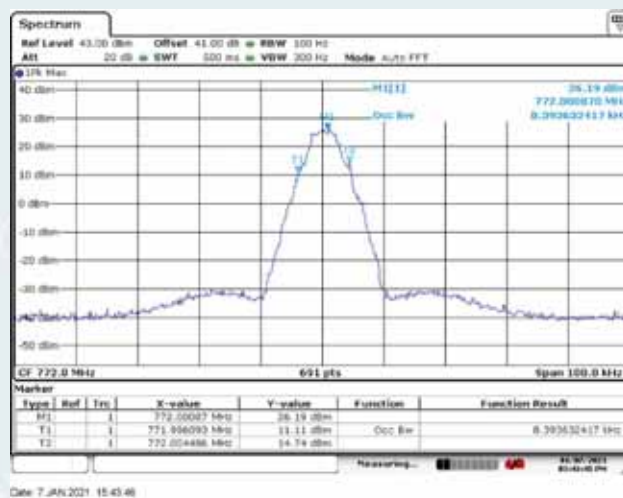
Low Frequency: 769.00625MHz, Output occupied BW
(with the input signal amplitude set 3 dB above the
AGC threshold)



Middle Frequency: 772.0MHz, Input occupied BW



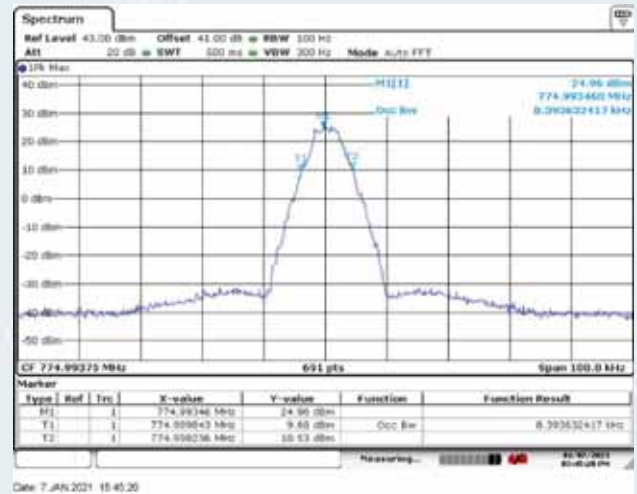
Middle Frequency: 772.0MHz, Output occupied
BW(AGC)



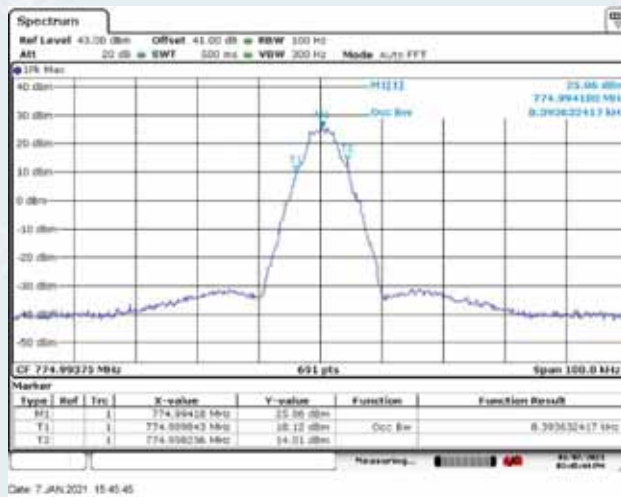
Middle Frequency: 772.0MHz, Output occupied BW
(with the input signal amplitude set 3 dB above the
AGC threshold)



High Frequency: 774.99375MHz, Input occupied BW

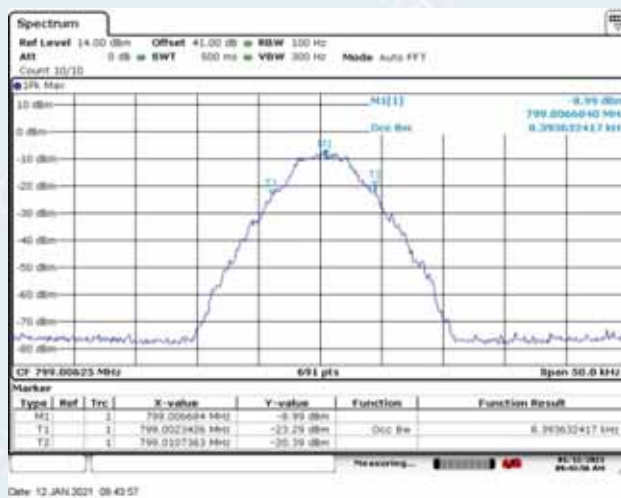


High Frequency: 774.99375MHz, Output occupied BW(AGC)



High Frequency: 774.99375MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

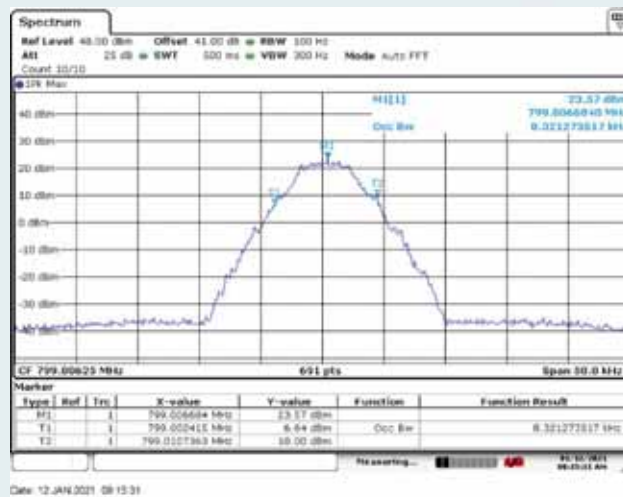
10.5.5.3.1.2.2 Uplink



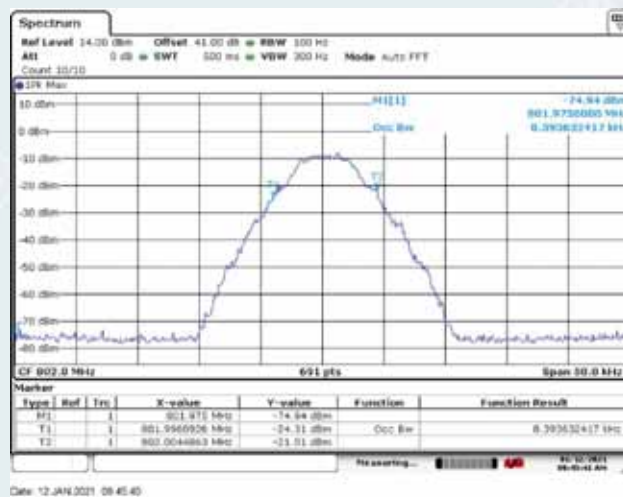
Low Frequency: 799.00625MHz, Input occupied BW



Low Frequency: 799.00625MHz, Output occupied BW(AGC)



Low Frequency: 799.00625 MHz, Output occupied BW
(with the input signal amplitude set 3 dB above the
AGC threshold)



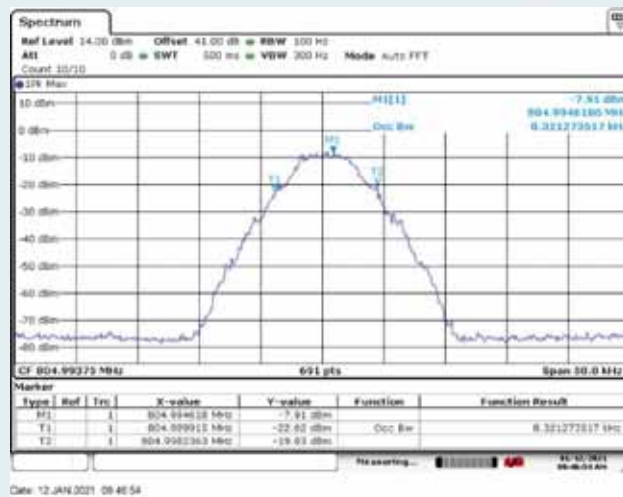
Middle Frequency: 802.0 MHz, Input occupied BW



Middle Frequency: 802.0 MHz, Output occupied
BW(AGC)



Middle Frequency: 802.0 MHz, Output occupied BW
(with the input signal amplitude set 3 dB above the
AGC threshold)



High Frequency: 804.99375MHz, Input occupied BW



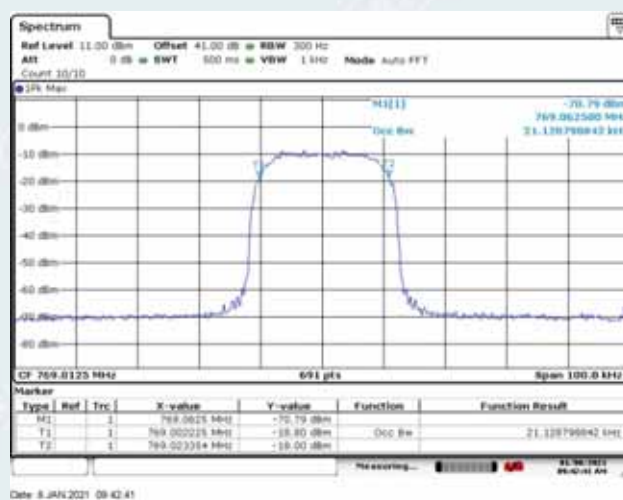
High Frequency: 804.99375MHz, Output occupied BW(AGC)



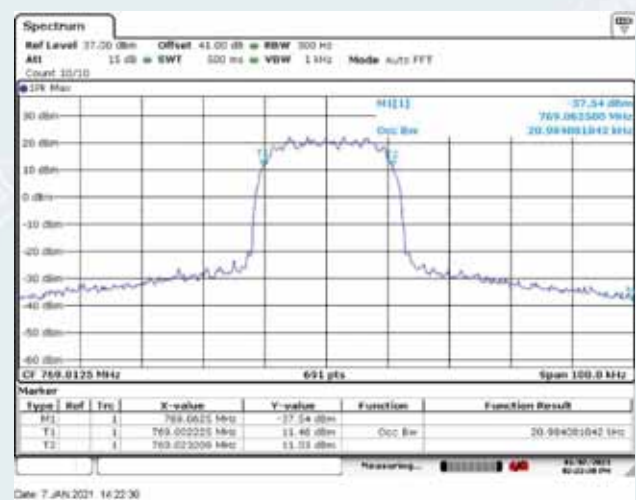
High Frequency: 804.99375MHz, Output occupied BW (with the input signal amplitude set 3 dB above the AGC threshold)

10.5.5.3.1.3 TETRA mode

10.5.5.3.1.3.1 Downlink



Low Frequency: 769.0125MHz, Input occupied BW



Low Frequency: 769.0125MHz, Output occupied BW(AGC)