

Test Report

of the accredited Testing Laboratory
0274 – TÜV AUSTRIA GMBH – Location Vienna - EMC Radio
ISED Laboratory Company Number: 2932K, CAB identifier: AT0001

Order Confirmation Number: 2025-AT-TC-EE-ET-EX-0-000218

About

the Radio - test listed below

Applicant: HONEYWELL INTERNATIONAL S.R.O.
V PARKU 2325/16
148 00 PRAHA 4 - CHODOV
Czech Republic

Tested product: Ka Band Satellite Communication Transceiver

Product Name: JetWave™ X system

Model: JetWave™ X TMA
JetWave™ X Modman

Accredited regulation: FCC: 47 CFR Part 25 (eCFR 01.12.2025)
ANSI C63.26-2015

Not-accredited regulation: SRSP-101 Issue 3, October 2023

Andreas Malek



Examined by / Testing Laboratory
TÜV AUSTRIA GMBH



Michael Emminger



Approved by / Testing Laboratory
TÜV AUSTRIA GMBH

The results of this test report only refer to the provided equipment.

Issued on 06.03.2026 in Vienna / TIC

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1. Applicant

Company: HONEYWELL INTERNATIONAL S.R.O.

Department: ---

Address: 148 00 PRAHA 4 - CHODOV; V PARKU 2325/16
Czech Republic

Contact person: Mrs. Angelica Barreto Arboleda

EUT received on: 01.12.2025

Tests were performed on: 02.12. – 19.12.2025

2. Description of EUT

EUT:	JetWave™ X TMA JetWave™ X Modman
Serial Numbers:	0011 00014
Manufacturer:	HONEYWELL INTERNATIONAL S.R.O. V PARKU 2325/16 148 00 PRAHA 4 – CHODOV Czech Republic
Description:	HONEYWELL INTERNATIONAL S.R.O. provided the following configuration for the measurements: JetWave™ X TMA (RF Part) S/N 0011 JetWave™ X Modman (Baseband Unit) S/N 00014 Auxilliary Equipment: Astrodyne AC PSU Model Nbr. SPS6236-LF S/N T100124846 and Astrodyne DC PSU Model Nbr. SPS6055-LF S/N T100112525
Operating mode:	The measurements were carried out at the following running states: transmit/receive with different symbol rates and power settings, powered either by AC or DC power supply
Technical data EUT:	Rated voltage: 28V / 115V Rated current: Rated frequency: DC / 400Hz Mains voltage during the tests: 28V DC / 115V @ 400Hz
Climatic conditions in the emc laboratory:	Relative humidity: 31,7% Temperature: 21,0°C

3. Standards / Final result

Name	Title	Deviation	Result
47 CFR Part 25 eCFR 01.12.2025	Satellite Communications	none	OK
ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	none	OK
SRSP-101 Issue 3, October 2023	Technical Requirements for Fixed Earth Stations Operating Above 1 GHz in Space Radiocommunication Services and Earth Stations in Motion (ESIMs) Operating in the Fixed-Satellite Service	*)	OK
Result: OK: NOK: Opinions and interpretation of testing laboratory EUT passed EUT failed			

The power stability requirement of 4.2 of SRSP-101 was not measureable, because measurements were only performed radiated and the measurement uncertainty is higher than the requirement of 1 dB power stability.

4. Test results

4.1.) Test object data

General EUT Description

The EUT is an aircraft earth station installed on the fuselage of the airplane and used to provide data services via geostationary satellite systems. The JetWave™ X system consists of a ModMan v5 (Baseband Unit), JetWave™ X Tail Mount Antenna (TMA) and TMA Power Supply Unit (PSU). The ModMan V5 includes two modems: iQ800 and LSDR.

2.1033 (c) Technical description

2.1033 (7) Type of emission:

LSDR Modem (Viasat-3 Network)

Emission Designator	Polarization	Modulation	Symbol Rate	Necessary BW	Max Output Power	Max EIRP
5M63G7D	RHCP, LHCP	BPSK, QPSK, 8PSK	5 MSym/s	5.625 MHz	+36.0 dBm	+43.0 dBW
90M0G7D	RHCP, LHCP	BPSK, QPSK, 8PSK	80 MSym/s	90 MHz	+44.0 dBm	+51.0 dBW

iQ800 Modem (Viasat Global Express Network)

Emission Designator	Polarization	Modulation	Symbol Rate	Necessary BW	Max Output Power	Max EIRP
648KG7W	RHCP, LHCP	BPSK, QPSK, 8PSK	540 kSym/s	648 kHz	+30.0 dBm	+37.0 dBW
9M00G7W	RHCP, LHCP	BPSK, QPSK, 8PSK	7.5 MSym/s	9.0 MHz	see table below	see table below

iQ800 modem, symbol rate 7.5MSym/s

Polarization	Frequency	Power Reduction	Max Output Power	Max EIRP
LHCP	29,005 GHz	2 dB (1.39 dB rounded to 1.5dB + 0.5dB production variance)	+38.0 dBm	+45.0 dBW
LHCP	29,505 GHz	1 dB (0.18 dB rounded to 0.5dB + 0.5dB production variance)	+39.0 dBm	+46.0 dBW
LHCP	29,995 GHz	1 dB (0.5dB + 0.5dB production variance)	+39.0 dBm	+46.0 dBW
RHCP	29,005 GHz	2 dB (1.20 dB rounded to 1.5dB + 0.5dB production variance)	+38.0 dBm	+45.0 dBW
RHCP	29,505 GHz	0	+40.0 dBm	+47.0 dBW
RHCP	29,995 GHz	0	+40.0 dBm	+47.0 dBW

Remark: The column 'Power Reduction' refers to an older prototype, that used to use +40 dBm output power for the whole frequency range.

Test object data – continued

2.1033 (8) Frequency range: 29,0 – 30,0 GHz (iQ800)
27,5 – 30,0 GHz (LSDR)

2.1033 (9) Power range and Controls: The maximum conducted output power is 10 W for iQ800 and 25W for LSDR. The actual output power is controlled by the satellite system in a closed loop.

2.1033 (10) Maximum output power rating: 10 W / 25W conducted with +47dBW / +51dBW e.i.r.p.
note: e.i.r.p. values stated, include tune up tolerances and shall be understood as absolute maximum ratings.

2.1033 (11) DC Voltage and Current of the final stage:
The final stage of amplification within the JetWave™ X system is provided by the SSPA which operates using +48V DC at a maximum current of 4,8 A.

Worst case Spurious Emissions: 22,6 dBm e.i.r.p @ 30,195 GHz.

Tests were performed December 2nd till December 19th 2025

4.2.) Conducted output power**§ 25.202f****§ 4.1 (SRSP-101)****Radiated Measurement**

The measurement was performed radiated as the transceiver is a block with electronics directly attached to the antenna and no waveguide flange is accessible. Far field antenna gain measurements were taken into account to calculate the conducted antenna input power.

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-126; EMV-220

iQ800 – Left hand circular polarization::

Tuned Frequency	Modulation	Symbol Rate	e.i.r.p	Antenna Gain	Antenna input power
GHz		Msym/s	dBm	dBi	dBm
29,005	BPSK	0,54	66,4	36,38	30,02
29,005	QPSK	0,54	66,4	36,38	30,02
29,005	8PSK	0,54	66,8	36,38	30,42
29,505	BPSK	0,54	67,6	36,76	30,84
29,505	QPSK	0,54	67,6	36,76	30,84
29,505	8PSK	0,54	67,3	36,76	30,54
29,995	BPSK	0,54	66,2	36,61	29,59
29,995	QPSK	0,54	66,2	36,61	29,59
29,995	8PSK	0,54	65,8	36,61	29,19
29,005	BPSK	7,5	75	36,38	38,62
29,005	QPSK	7,5	75	36,38	38,62
29,005	8PSK	7,5	74,7	36,38	38,32
29,505	BPSK	7,5	75,7	36,76	38,94
29,505	QPSK	7,5	75,7	36,76	38,94
29,505	8PSK	7,5	75,4	36,76	38,64
29,995	BPSK	7,5	75,1	36,61	38,49
29,995	QPSK	7,5	75,1	36,61	38,49
29,995	8PSK	7,5	74,7	36,61	38,09

Limit SRSP-101:

For space services sharing frequency bands above 1 GHz with terrestrial services, the equivalent isotropically radiated power (e.i.r.p.) transmitted in any direction towards the horizon by an earth station shall not exceed the following limits: (Remark: +64dBW corresponds to +94dBm)

b. in frequency bands above 15 GHz

+64 dBW in any 1 MHz band for $\theta \leq 0^\circ$

+64 + 30 dBW in any 1 MHz band for $0^\circ < \theta \leq 5^\circ$

where θ is the angle of elevation of the horizon viewed from the centre of the radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

Grundvorlage / Basic Template: FM-TAGMBH-KBS-0100b Grundvorlage Prüfbericht akkreditiert-DE-EN, Rev. 04

FM-TAGMBH-EE-
FG-0100a

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Conducted output power**§ 25.202f****§ 4.1 (SRSP-101)****Radiated Measurement**

The measurement was performed radiated as the transceiver is a block with electronics directly attached to the antenna and no waveguide flange is accessible. Far field antenna gain measurements were taken into account to calculate the conducted antenna input power.

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-126; EMV-220

iQ800 – Right hand circular polarization::

Tuned Frequency	Modulation	Symbol Rate	e.i.r.p	Antenna Gain	Antenna input power
GHz		Msym/s	dBm	dBi	dBm
29,005	BPSK	0,54	65,8	36,41	29,39
29,005	QPSK	0,54	65,8	36,41	29,39
29,005	8PSK	0,54	66,3	36,41	29,89
29,505	BPSK	0,54	65,3	36,71	28,59
29,505	QPSK	0,54	65,3	36,71	28,59
29,505	8PSK	0,54	65,9	36,71	29,19
29,995	BPSK	0,54	66	36,56	29,44
29,995	QPSK	0,54	66	36,56	29,44
29,995	8PSK	0,54	65,9	36,56	29,34
29,005	BPSK	7,5	74,2	36,41	37,79
29,005	QPSK	7,5	74,2	36,41	37,79
29,005	8PSK	7,5	73,9	36,41	37,49
29,505	BPSK	7,5	75,6	36,71	38,89
29,505	QPSK	7,5	75,6	36,71	38,89
29,505	8PSK	7,5	76,1	36,71	39,39
29,995	BPSK	7,5	75	36,56	38,44
29,995	QPSK	7,5	75	36,56	38,44
29,995	8PSK	7,5	74,7	36,56	38,14

Limit SRSP-101:

For space services sharing frequency bands above 1 GHz with terrestrial services, the equivalent isotropically radiated power (e.i.r.p.) transmitted in any direction towards the horizon by an earth station shall not exceed the following limits: (Remark: +64dBW corresponds to +94dBm)

b. in frequency bands above 15 GHz

+64 dBW in any 1 MHz band for $\theta \leq 0^\circ$

+64 + 30 dBW in any 1 MHz band for $0^\circ < \theta \leq 5^\circ$

where θ is the angle of elevation of the horizon viewed from the centre of the radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

Grundvorlage / Basic Template: FM-TAGMBH-KBS-0100b Grundvorlage Prüfbericht akkreditiert-DE-EN, Rev. 04

FM-TAGMBH-EE-
FG-0100a

Revision: 00
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Conducted output power

§ 25.202f
§ 4.1 (SRSP-101)

Radiated Measurement

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-126; EMV-220

LSDR – Left hand circular polarization::

Tuned Frequency	Modulation	Symbol Rate	e.i.r.p	Antenna Gain	Antenna input power
GHz		Msym/s	dBm	dBi	dBm
27,55	BPSK	5	72,2	36,5	35,7
27,55	QPSK	5	72,2	36,5	35,7
27,55	8PSK	5	72,1	36,5	35,6
28,75	BPSK	5	72,5	36,55	35,95
28,75	QPSK	5	72,5	36,55	35,95
28,75	8PSK	5	72,6	36,55	36,05
29,95	BPSK	5	72,3	36,64	35,66
29,95	QPSK	5	72,2	36,64	35,56
29,95	8PSK	5	72	36,64	35,36
27,55	BPSK	80	78,2	36,5	41,7
27,55	QPSK	80	78,2	36,5	41,7
27,55	8PSK	80	79,5	36,5	43
28,75	BPSK	80	78,3	36,55	41,75
28,75	QPSK	80	78,4	36,55	41,85
28,75	8PSK	80	78,3	36,55	41,75
29,95	BPSK	80	80,1	36,64	43,46
29,95	QPSK	80	80,1	36,64	43,46
29,95	8PSK	80	80,2	36,64	43,56

Limit SRSP-101:

For space services sharing frequency bands above 1 GHz with terrestrial services, the equivalent isotropically radiated power (e.i.r.p.) transmitted in any direction towards the horizon by an earth station shall not exceed the following limits: (Remark: +64dBW corresponds to +94dBm)

b. in frequency bands above 15 GHz

+64 dBW in any 1 MHz band for $\theta \leq 0^\circ$

+64 + 3 θ dBW in any 1 MHz band for $0^\circ < \theta \leq 5^\circ$

where θ is the angle of elevation of the horizon viewed from the centre of the radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

Conducted output power

§ 25.202f
§ 4.1 (SRSP-101)

Radiated Measurement

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-126; EMV-220

LSDR – Right hand circular polarization::

Tuned Frequency	Modulation	Symbol Rate	e.i.r.p	Antenna Gain	Antenna input power
GHz		Msym/s	dBm	dBi	dBm
27,55	BPSK	5	71,3	36,5	34,8
27,55	QPSK	5	71,3	36,5	34,8
27,55	8PSK	5	71,6	36,5	35,1
28,75	BPSK	5	71,9	36,55	35,35
28,75	QPSK	5	71,9	36,55	35,35
28,75	8PSK	5	71,8	36,55	35,25
29,95	BPSK	5	72,1	36,59	35,51
29,95	QPSK	5	72,2	36,59	35,61
29,95	8PSK	5	72,2	36,59	35,61
27,55	BPSK	80	77,7	36,5	41,2
27,55	QPSK	80	77,8	36,5	41,3
27,55	8PSK	80	78,5	36,5	42
28,75	BPSK	80	77,9	36,55	41,35
28,75	QPSK	80	77,8	36,55	41,25
28,75	8PSK	80	77,7	36,55	41,15
29,95	BPSK	80	78,6	36,59	42,01
29,95	QPSK	80	78,8	36,59	42,21
29,95	8PSK	80	78,6	36,59	42,01

Limit SRSP-101:

For space services sharing frequency bands above 1 GHz with terrestrial services, the equivalent isotropically radiated power (e.i.r.p.) transmitted in any direction towards the horizon by an earth station shall not exceed the following limits: (Remark: +64dBW corresponds to +94dBm)

b. in frequency bands above 15 GHz

+64 dBW in any 1 MHz band for $\theta \leq 0^\circ$

+64 + 3 θ dBW in any 1 MHz band for $0^\circ < \theta \leq 5^\circ$

where θ is the angle of elevation of the horizon viewed from the centre of the radiation of the antenna of the earth station and measured in degrees as positive above the horizontal plane and negative below it.

4.3.) Spurious Emissions**§ 25.202f**

Radiated Measurement – as measurement bandwidth of 4 kHz was not available, all measurements were performed with 5 kHz resolution bandwidth.

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-126; EMV-205

Bandwidth calculations:

iQ800:

$$B = \text{symbol-rate} \times (1 + \text{roll-off factor})$$

$$B_{540\text{ks/s}} = 0,54 \times (1 + 0,2) = 0,648 \text{ MHz}$$

$$B_{7,5\text{Ms/s}} = 7,5 \times (1 + 0,2) = 9 \text{ MHz}$$

LSDR:

$$B = \text{symbol-rate} \times (1 + \text{roll-off factor})$$

$$B_{5\text{Ms/s}} = 5 \times (1 + 0,125) = 5,625 \text{ MHz}$$

$$B_{80\text{Ms/s}} = 80 \times (1 + 0,125) = 90 \text{ MHz}$$

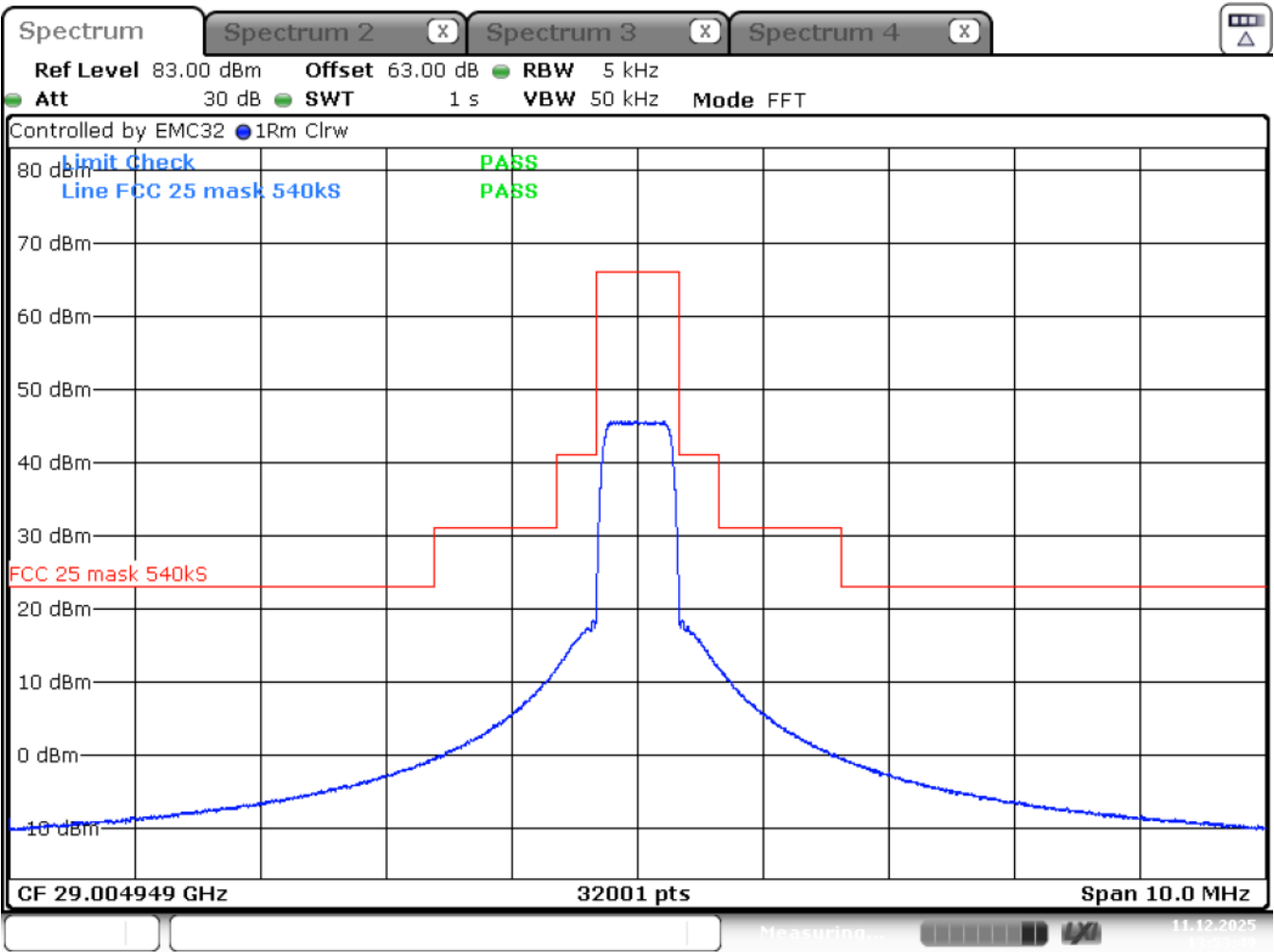
4.3.1) iQ800

Lower band edge / 540kSymbol/s

LIMIT SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

29,00468 – 29,00532 GHz	66 dBm
29,00435 – 29,00468 GHz / 29,00532 – 29,00565 GHz	41 dBm
29,00338 – 29,00435 GHz / 29,00565 – 29,00662 GHz	31 dBm
below 29,00338 GHz / above 29,00662 GHz	23 dBm

Tuned frequency = 29.005 GHz, 8PSK at 540kSymbol/s (worst case modulation scheme selected from preliminary measurements)



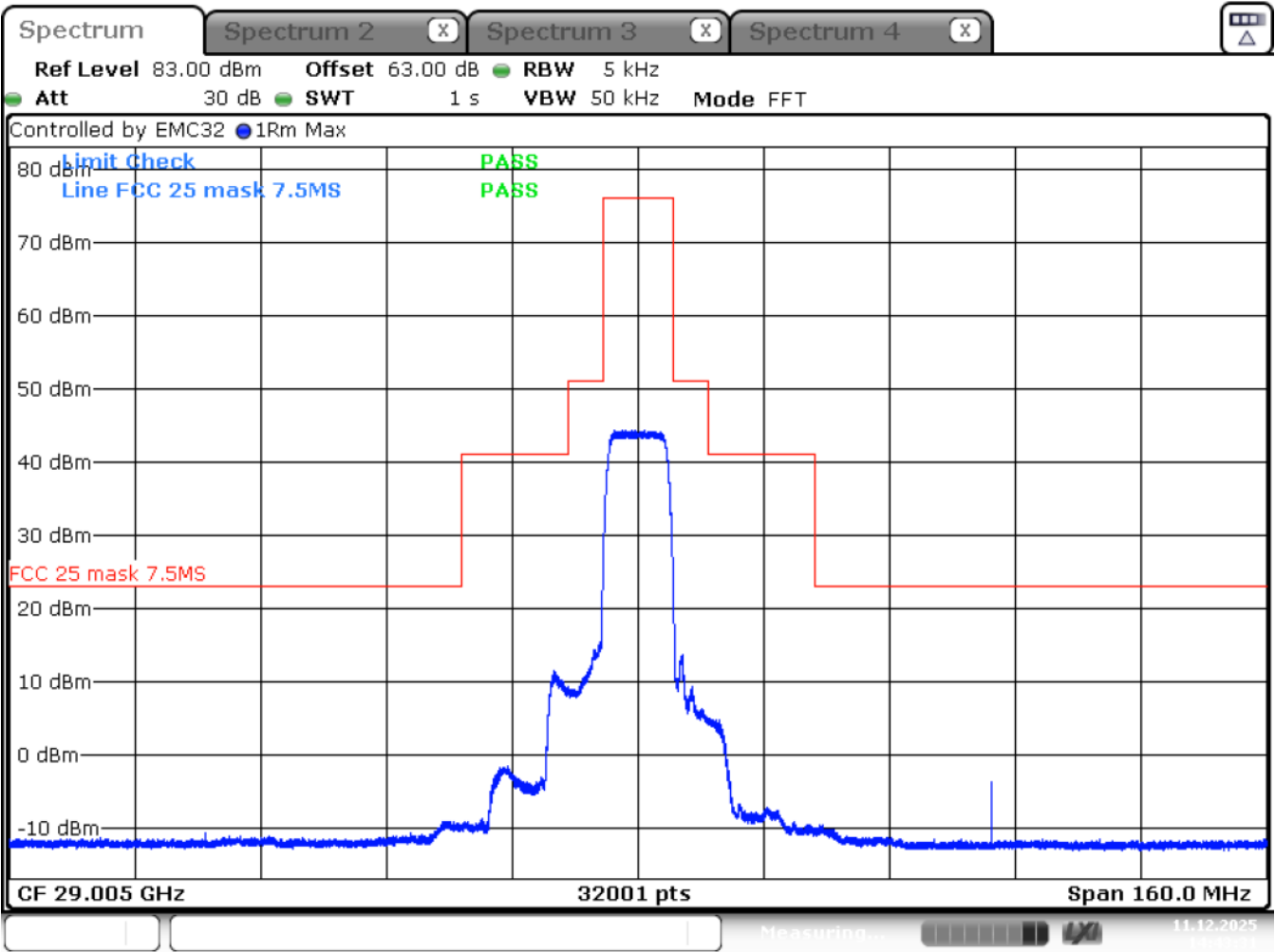
Date: 11.DEC.2025 13:53:49

Lower band edge / 7.5MSymbols/s

LIMIT SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

29,0005 – 29,0095 GHz	76 dBm
28,996 – 29,0005 GHz / 29,0095 – 29,014 GHz	51 dBm
28,9825 – 28,996 GHz / 29,014 – 29,0275 GHz	41 dBm
below 28,9825 GHz / above 29,0275 GHz	23 dBm

Tuned frequency = 29.005 GHz, BPSK at 7.5MSymbols/s (worst case modulation scheme selected from preliminary measurements)



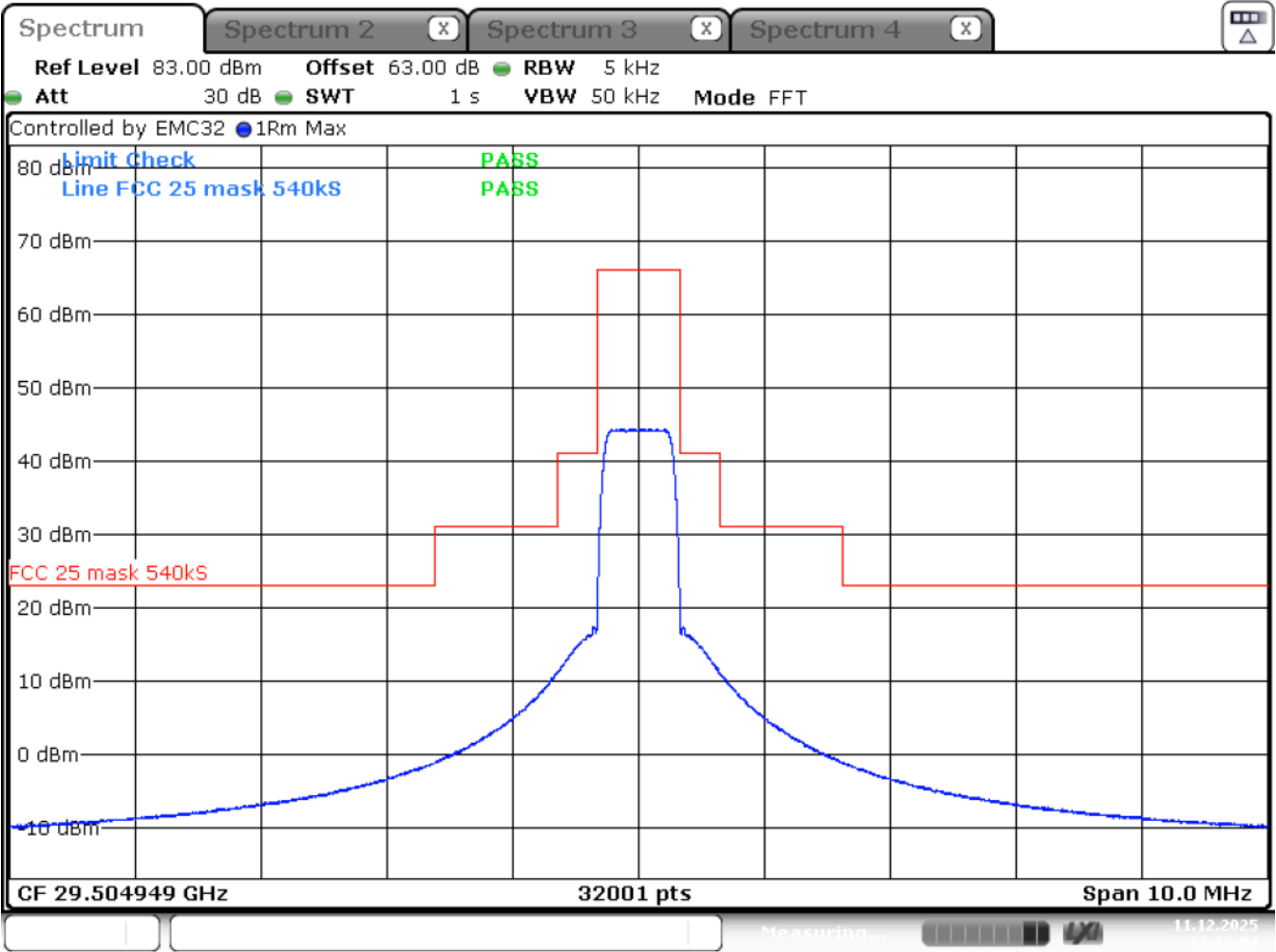
Date: 11.DEC.2025 14:43:31

Center frequency / 540kSymbol/s

LIMIT SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

29,50468 – 29,50532 GHz	66 dBm
29,50435 – 29,50468 GHz / 29,50532 – 29,50565 GHz	41 dBm
29,50338 – 29,50435 GHz / 29,50565 – 29,50662 GHz	31 dBm
below 29,50338 GHz / above 29,50662 GHz	23 dBm

Tuned frequency = 29.505 GHz, 8PSK at 540kSymbol/s (worst case modulation scheme selected from preliminary measurements)



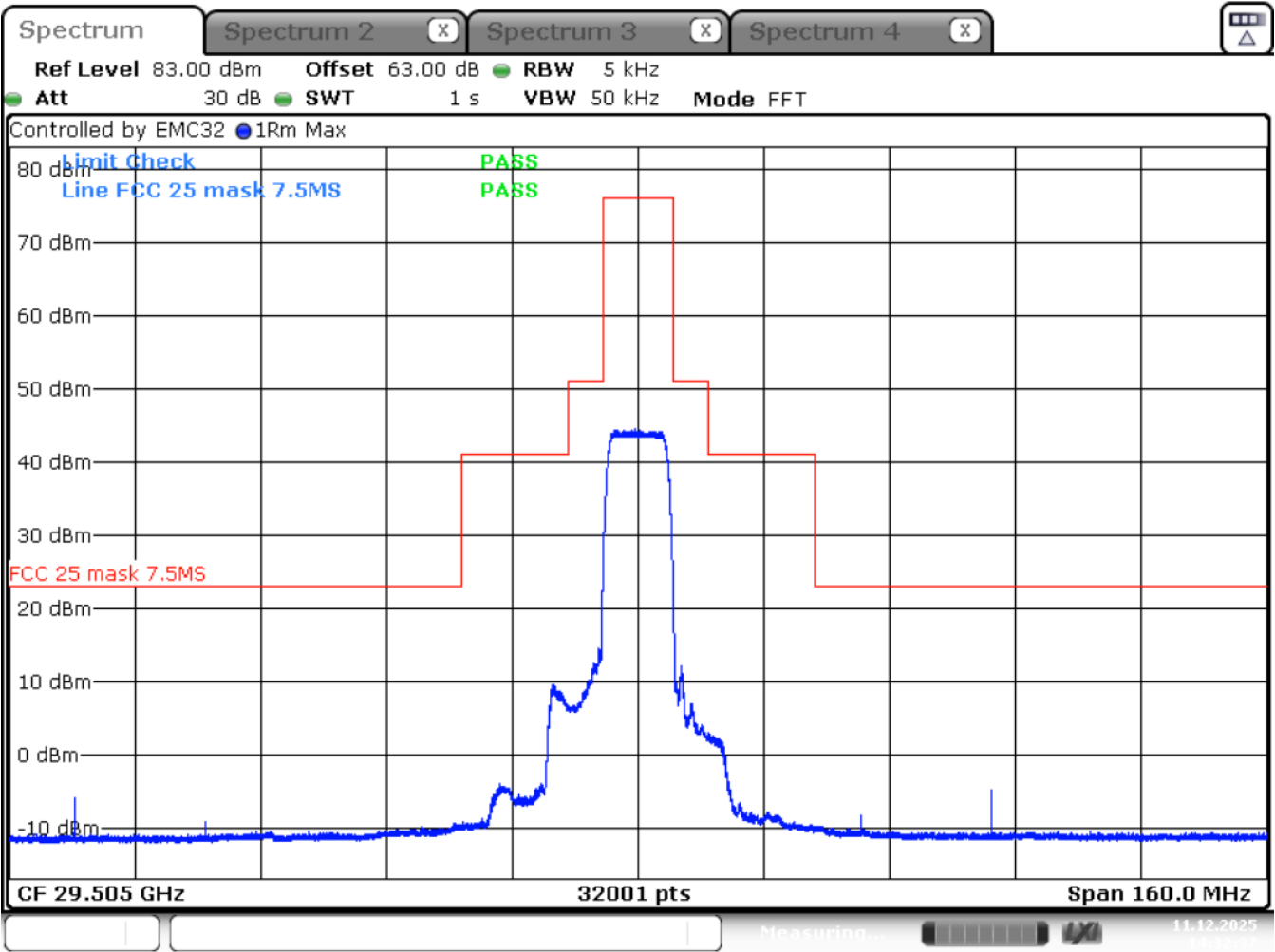
Date: 11.DEC.2025 14:1204

Center frequency / 7.5MSymbols/s

LIMIT SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

29,5005 – 29,5095 GHz	76 dBm
29,496 – 29,5005 GHz / 29,5095 – 29,514 GHz	51 dBm
29,4825 – 29,496 GHz / 29,514 – 29,5275 GHz	41 dBm
below 29,4825 GHz / above 29,5275 GHz	23 dBm

Tuned frequency = 29.005 GHz, BPSK at 7.5MSymbols/s (worst case modulation scheme selected from preliminary measurements)



Date: 11.DEC.2025 14:32:37

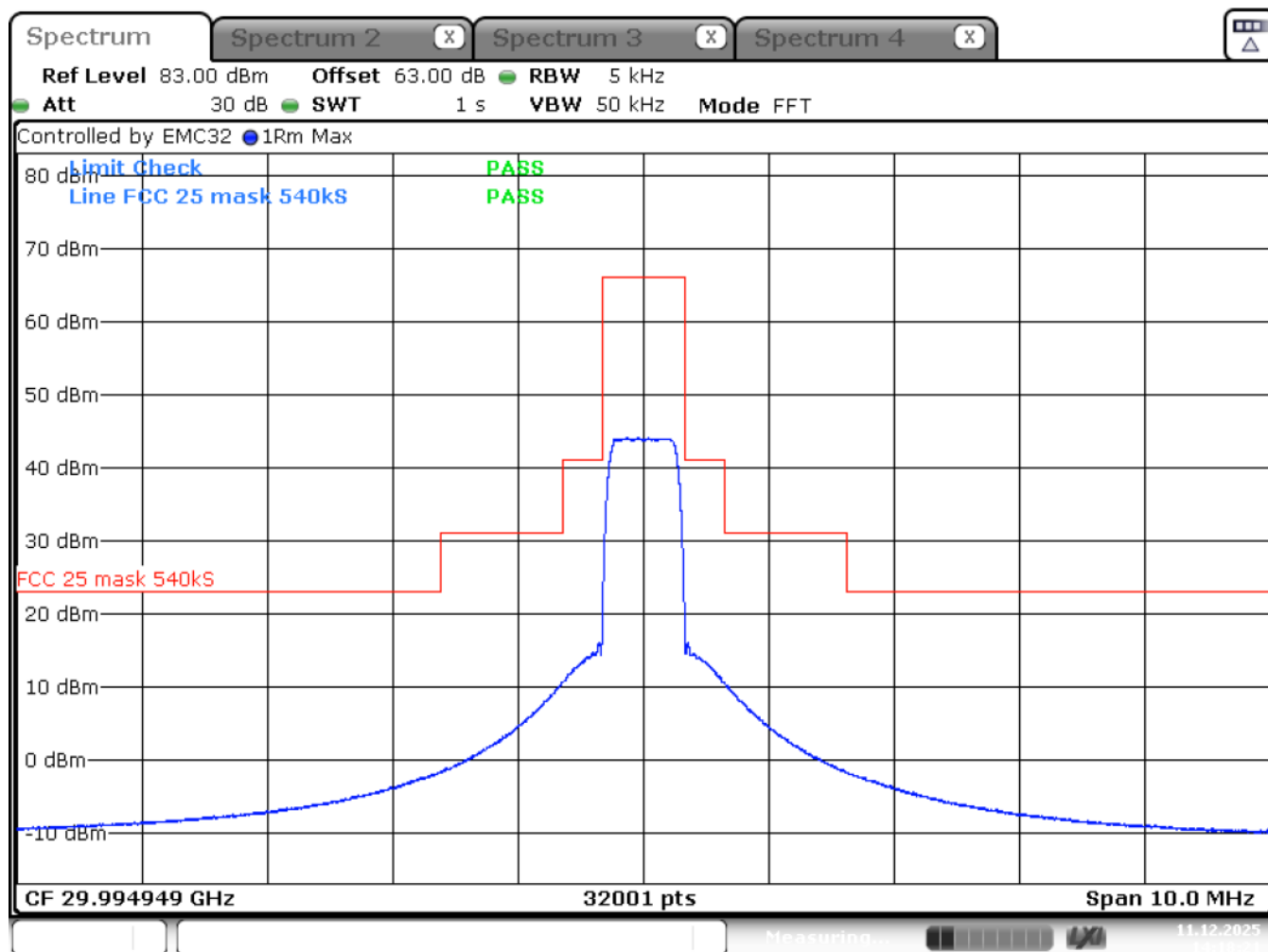
Upper band edge / 540kSymbol/s

LIMIT

SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

29,99468 – 29,99532 GHz	66 dBm
29,99435 – 29,99468 GHz / 29,99532 – 29,99565 GHz	41 dBm
29,99338 – 29,99435 GHz / 29,99565 – 29,99662 GHz	31 dBm
below 29,99338 GHz / above 29,99662 GHz	23 dBm

Tuned frequency = 29.995 GHz, QPSK at 540kSymbol/s (worst case modulation scheme selected from preliminary measurements)



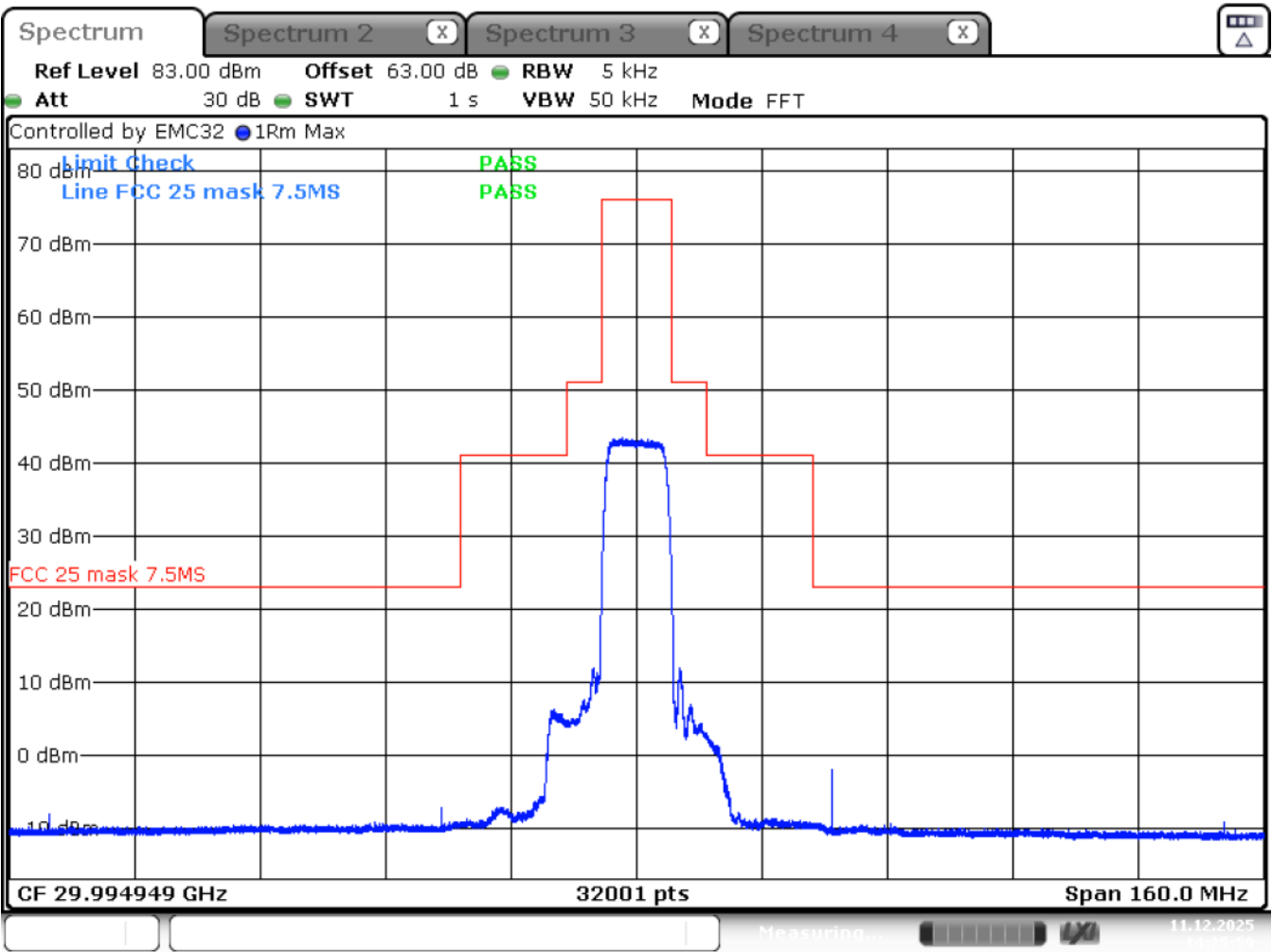
Date: 11.DEC.2025 14:18:21

Upper band edge / 7.5MSymbols/s

LIMIT SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

29,9905 – 29,9995 GHz	76 dBm
29,986 – 29,9905 GHz / 29,9995 – 30,004 GHz	51 dBm
29,9725 – 29,986 GHz / 30,004 – 30,0175 GHz	41 dBm
below 29,9725 GHz / above 30,0175 GHz	23 dBm

Tuned frequency = 29.005 GHz, BPSK at 7.5MSymbols/s (worst case modulation scheme selected from preliminary measurements)



Date: 11.DEC.2025 14:26:00

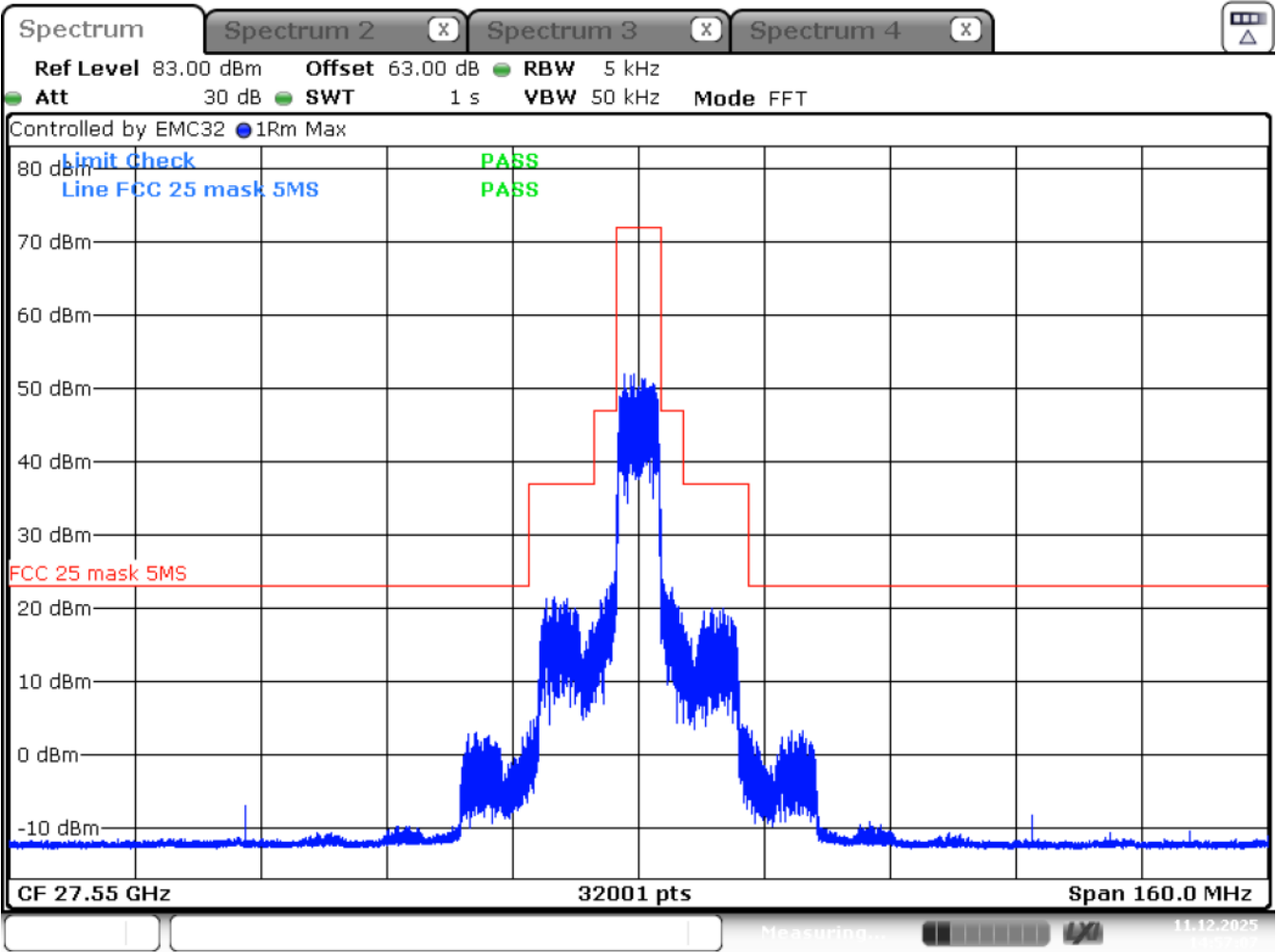
4.3.2) LSDR

Lower band edge / 5MSymbol/s

LIMIT SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

27,54719 – 27,55281 GHz	72 dBm
27,54438 – 27,54719 GHz / 27,55281 – 27,55563 GHz	47 dBm
27,53594 – 27,54438 GHz / 27,55563 – 27,56406 GHz	37 dBm
below 27,53594 GHz / above 27,56406 GHz	23 dBm

Tuned frequency = 27.55 GHz, 8PSK at 5MSymbol/s (worst case modulation scheme selected from preliminary measurements)



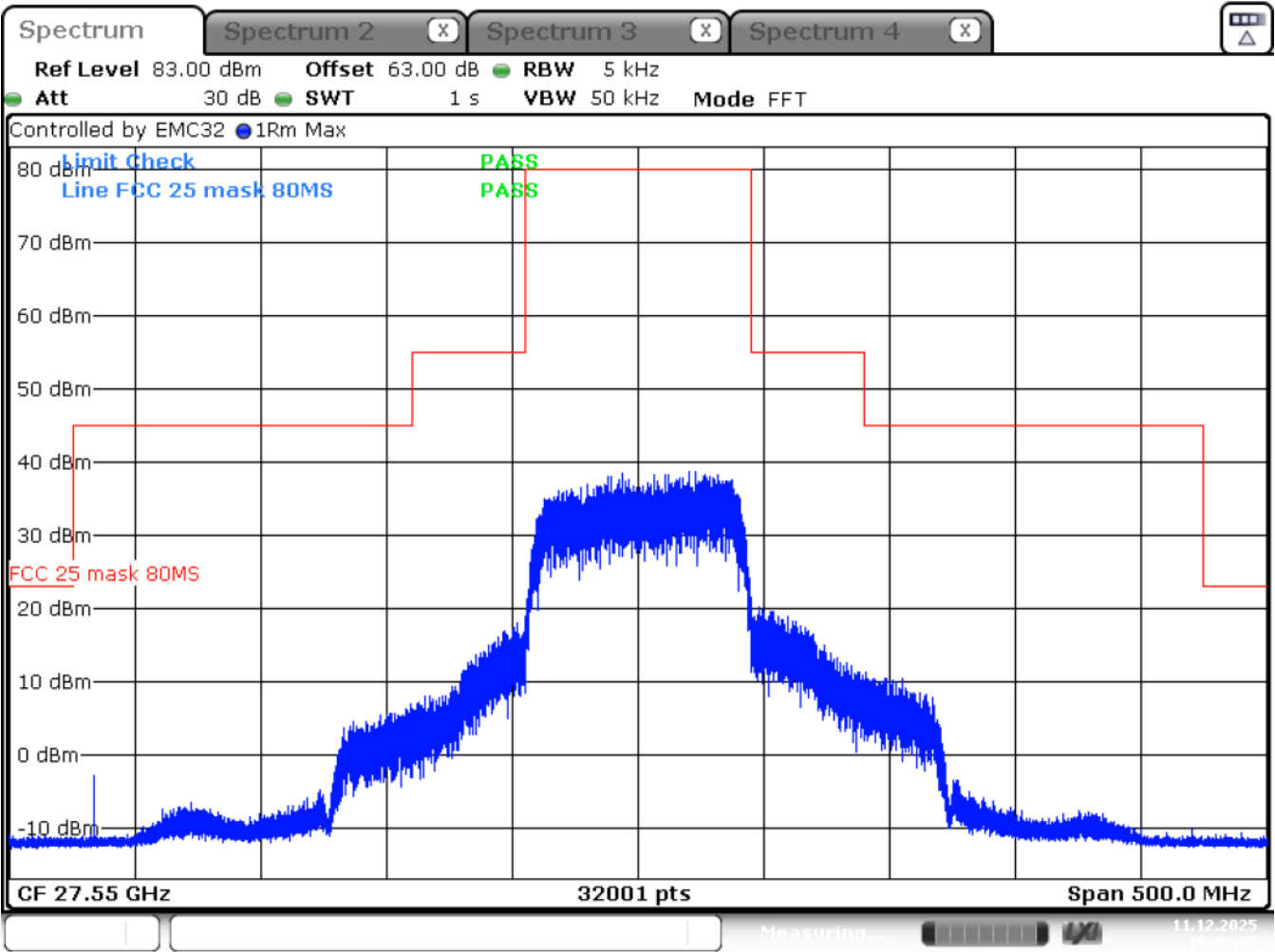
Date: 11.DEC.2025 14:57:07

Lower band edge / 80MSymbols/s

LIMIT SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

27,505 – 27,595 GHz	80 dBm
27,460 – 27,505 GHz / 27,595 – 27,640 GHz	55 dBm
27,325 – 27,460 GHz / 27,640 – 27,775 GHz	45 dBm
below 27,325 GHz / above 27,775 GHz	23 dBm

Tuned frequency = 27.55 GHz, BPSK at 80MSymbols/s (worst case modulation scheme selected from preliminary measurements)



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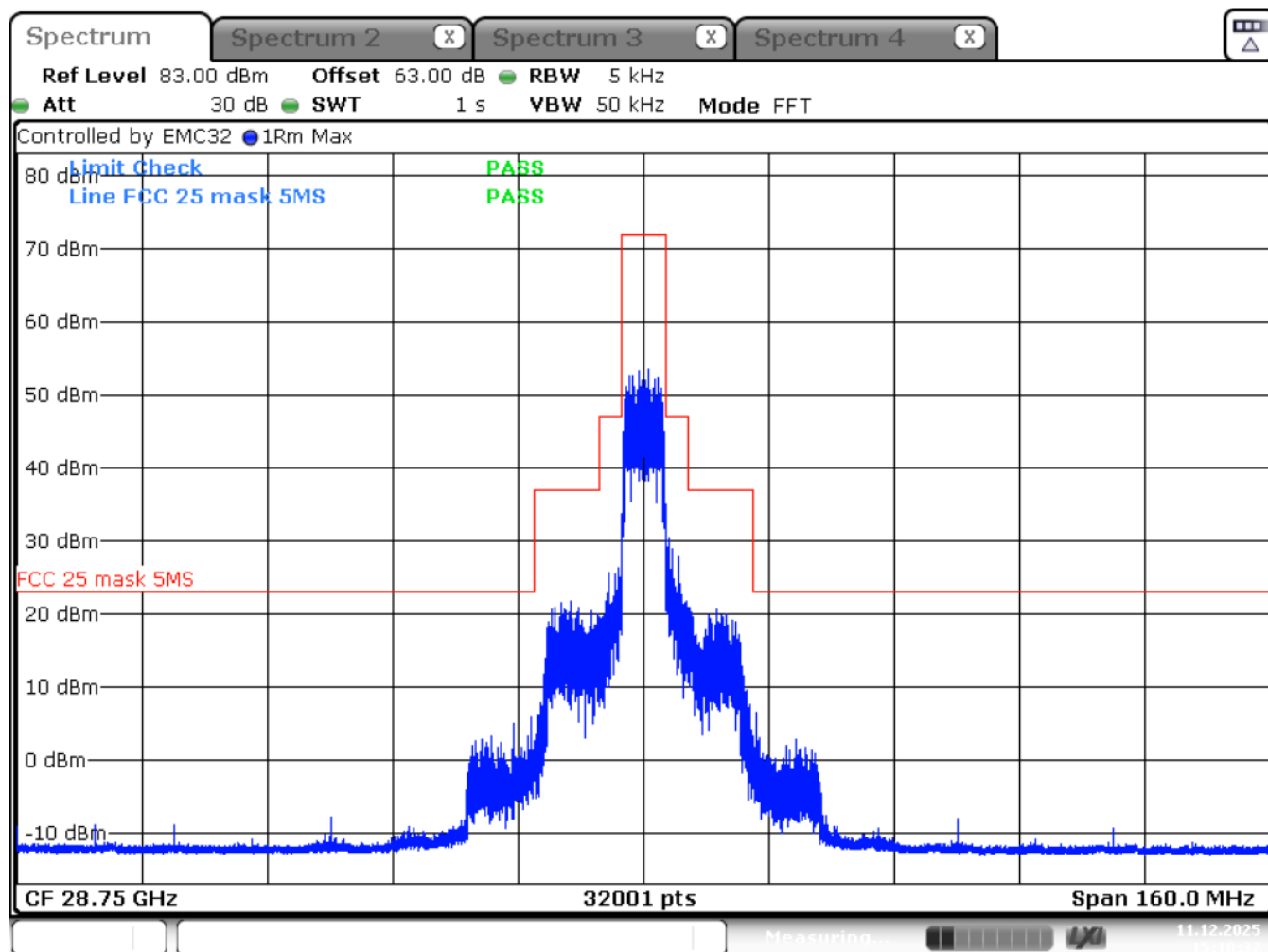
Center frequency / 5MSymbol/s

LIMIT

SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

28,74719 – 28,75281 GHz	72 dBm
28,74438 – 28,74719 GHz / 28,75281 – 28,75563 GHz	47 dBm
28,73594 – 28,74438 GHz / 28,75563 – 28,76406 GHz	37 dBm
below 28,73594 GHz / above 28,76406 GHz	23 dBm

Tuned frequency = 28.75 GHz, BPSK at 5MSymbol/s (worst case modulation scheme selected from preliminary measurements)



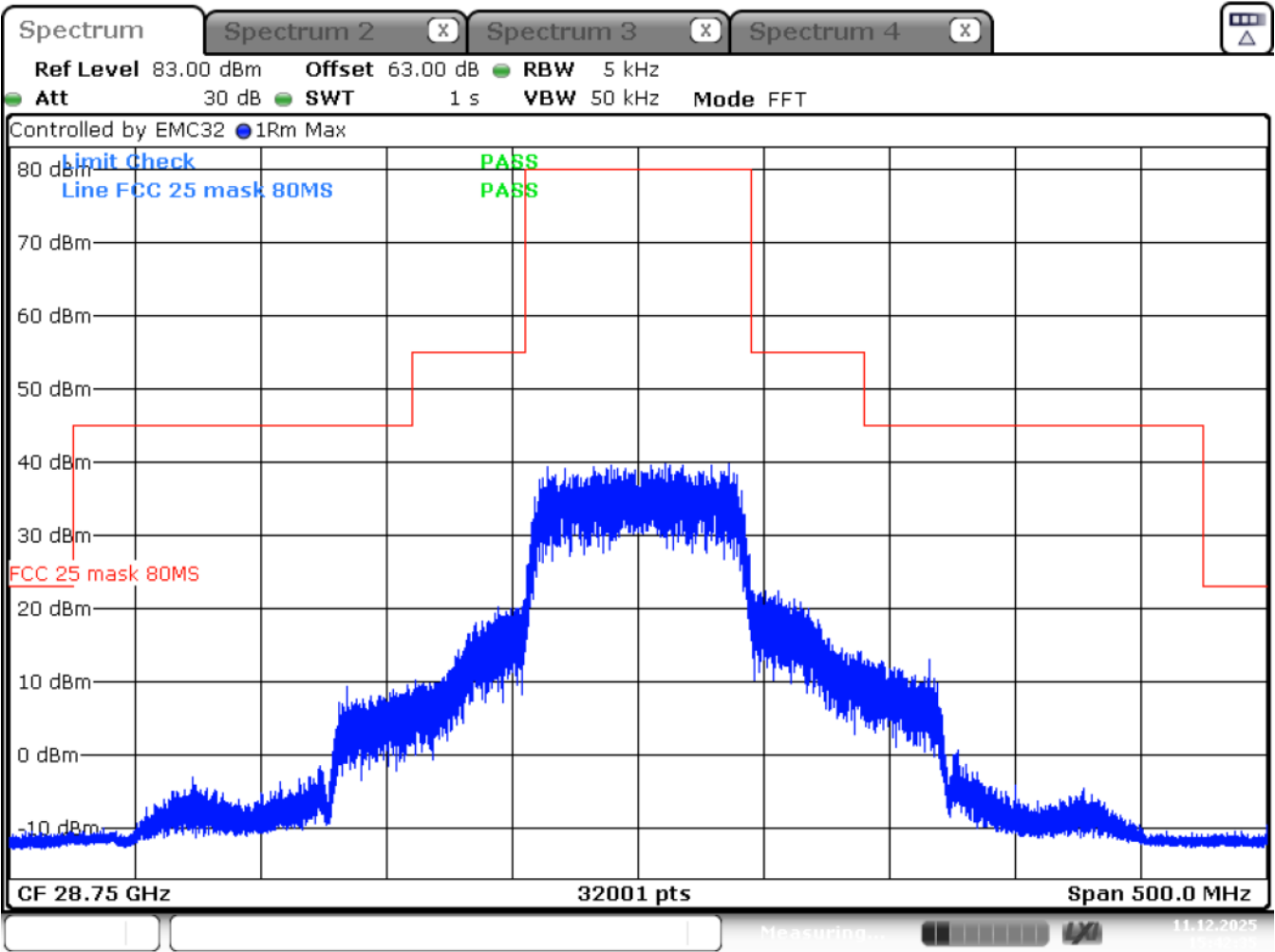
Date: 11.DEC.2025 15:10:33

Center frequency / 80MSymbols/s

LIMIT SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

28,705 – 28,795 GHz	80 dBm
28,660 – 28,705 GHz / 28,795 – 28,840 GHz	55 dBm
28,525 – 28,660 GHz / 28,840 – 28,975 GHz	45 dBm
below 28,525 GHz / above 28,975 GHz	23 dBm

Tuned frequency = 28.75 GHz, BPSK at 80MSymbols/s (worst case modulation scheme selected from preliminary measurements)



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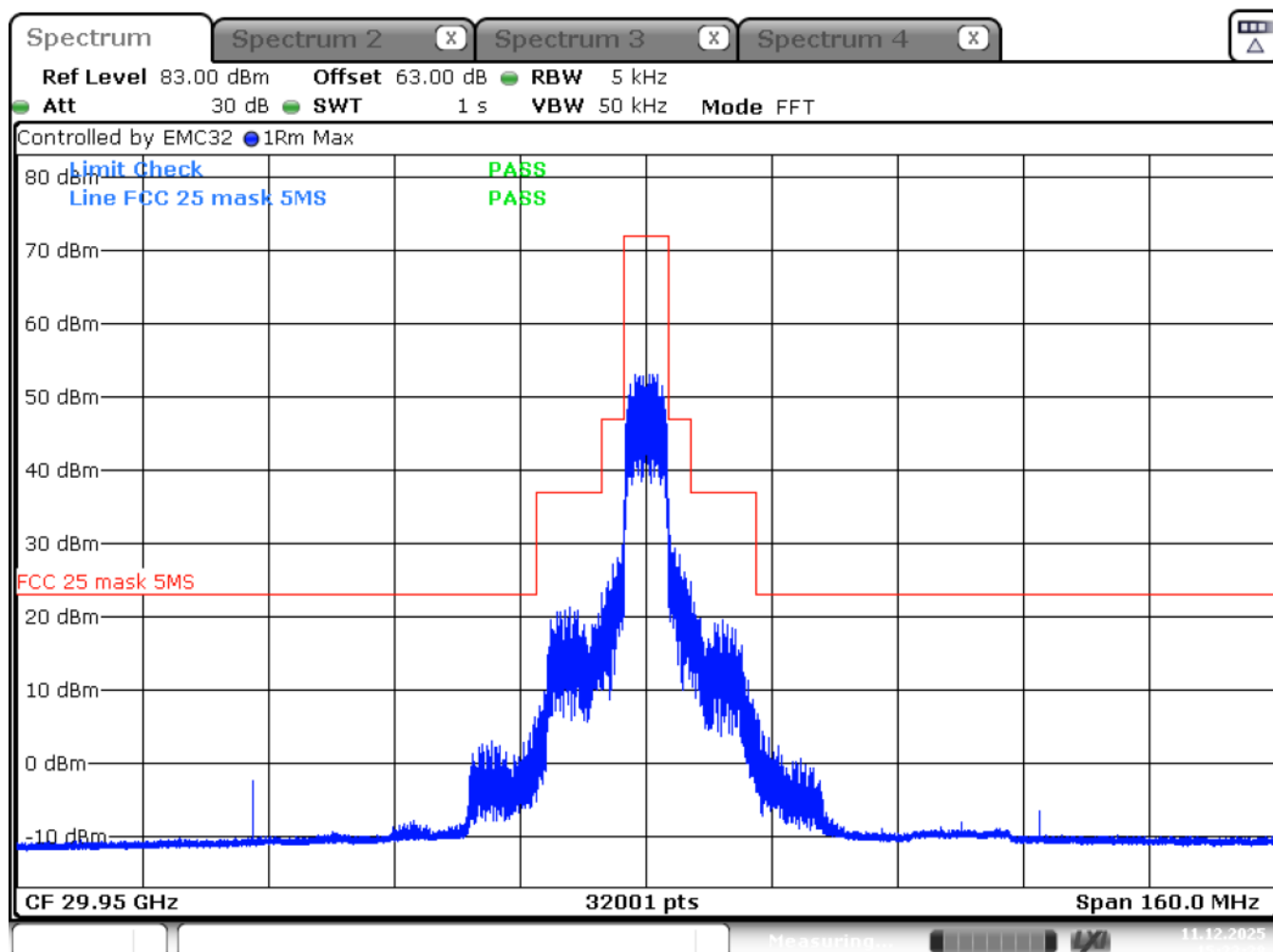
Upper band edge / 5MSymbol/s

LIMIT

SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

29,94719 – 29,95281 GHz	72 dBm
29,94438 – 29,94719 GHz / 29,95281 – 29,95563 GHz	47 dBm
29,93594 – 29,94438 GHz / 29,95563 – 29,96406 GHz	37 dBm
below 29,93594 GHz / above 29,96406 GHz	23 dBm

Tuned frequency = 29.95 GHz, BPSK at 5MSymbol/s (worst case modulation scheme selected from preliminary measurements)



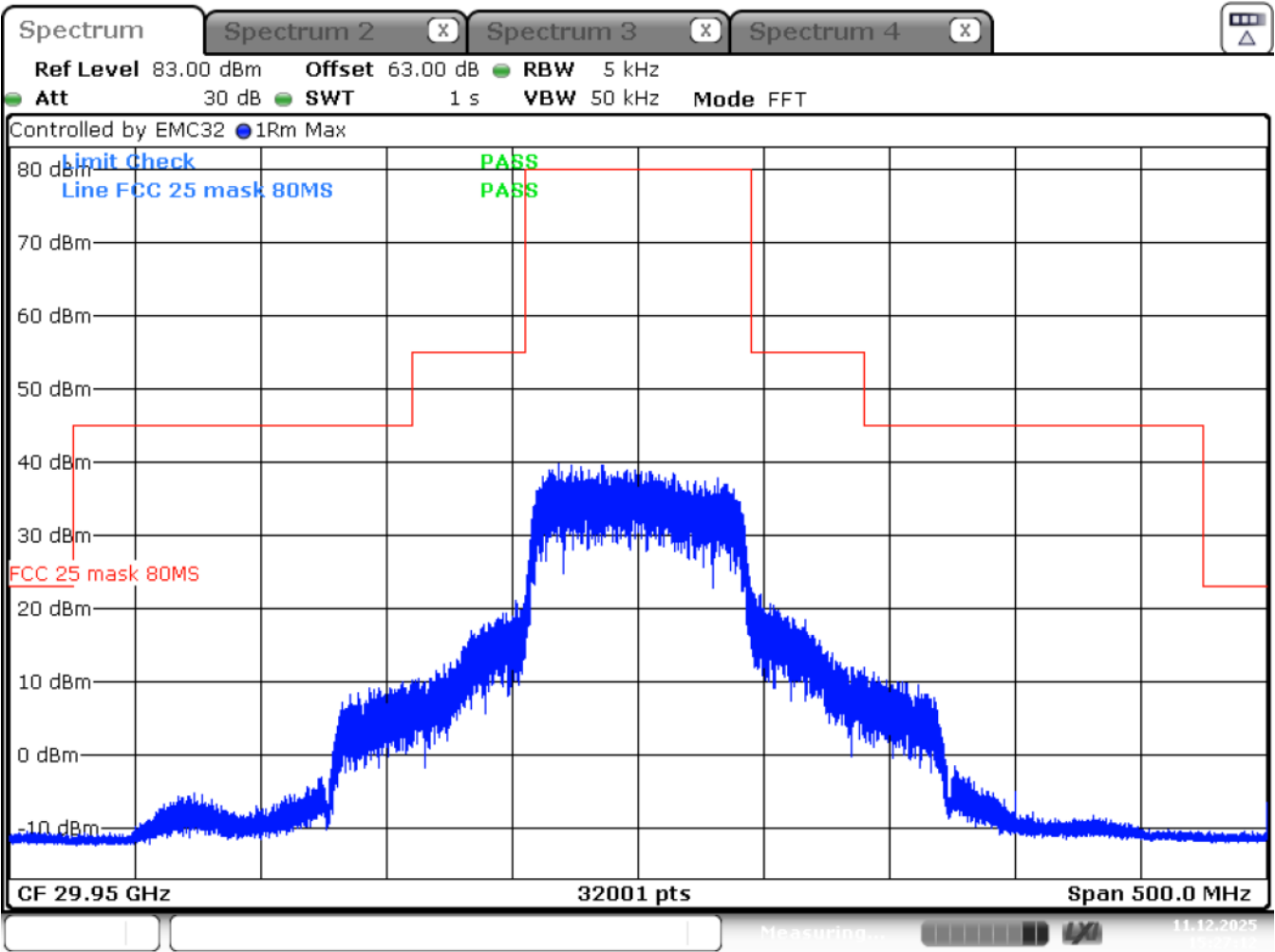
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Upper band edge / 80MSymbols/s

LIMIT SUBCLAUSE 25.202(f) and SRSP-101 Clause 4.4

29,905 – 29,995 GHz	80 dBm
29,860 – 29,905 GHz / 29,995 – 30,040 GHz	55 dBm
29,725 – 29,860 GHz / 30,040 – 30,175 GHz	45 dBm
below 29,725 GHz / above 30,175 GHz	23 dBm

Tuned frequency = 29.95 GHz, BPSK at 80MSymbols/s (worst case modulation scheme selected from preliminary measurements)



Date: 11.DEC.2025 15:27:13