

TEST REPORT

of the accredited test laboratory

TÜV Nr.:INE-AT/FG-20/225

Applicant: EMS Technologies Honeywell Satcom
400 Maple Grove Rd
Ottawa, Ontario K2V 1B8

Tested Product: KRFU Ka Band Radio Frequency Unit
(Block Up Converter – High Power Amplifier)

FCC-ID: K6KJETWAVE3

Manufacturer: See Applicant

Output power / field strength: 20 W **power supply:** 115 VAC
400Hz

Frequency range: 29,0 – 30,0 GHz **Channel separation:** n.a.

Standard: FCC: 47 CFR Part 25 (eCFR November 30th, 2020 edition)

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Technik

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Court / - Number:**
Vienna / FN 288476 f**Bank Details:**
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BIC BKAUATWWVAT ATU63240488
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Test laboratory for EMC

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Laboratory
TÜV AUSTRIA SERVICES
GMBH

21.12.2020

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

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1. Applicant

Company: EMS Technologies Honeywell Satcom

Department: SATCOM Cabin

Address: 400 Maple Grove Rd
Ottawa, Ontario K2V 1B8

Contact person: Mr. Niklaus Wendzich

EUT received on: 27.11.2020

Tests were performed on: 30.11. till 11.12.2020

2. Description of EUT

EUT: KRFU Ka Band Radio Frequency Unit
(Block Up Converter – High Power Amplifier)
Part number: 90003227-003

Serial Number: 00004

Manufacturer: EMS Technologies Honeywell Satcom
Ottawa, Ontario K2V 1B8; 400 Maple Grove Rd

Description: EMS Technologies Honeywell Satcom provided the following configuration for the measurements:

JetWave™ MCS-8562 Terminal which consists of:

Description	Part number	Serial number
Modman	90400012-0002	000000203
APM	90401121	000002024
KANDU	90404518	000000103
KRFU BUC-HPA	90003227-003	00004
JW-2 FUSELAGE MOUNT ANTENNA	90002609-001 REV B	00004

Operating mode: The measurements were carried out at the following running states:
Transmitting at highest output power

Technical data EUT: Rated voltage: 115VAC
Rated current: max. 2,3A
Rated frequency: 400Hz

Mains voltage during the tests: 115VAC

Climatic conditions in the emc laboratory: Relative humidity: 36 – 45%
Temperature: 22,3 – 24,8°C

3. Standards / Final result

Name	Title	Deviation	Result
Title 47 CFR Part 25 eCFR November 30 th , 2020 edition	SATELLITE COMMUNICATIONS	none	OK
<p>Result: Opinions and interpretation of testing laboratory OK: EUT passed NOK: EUT failed</p>			

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 Inmarsat Global Xpress Aviation data services.

2.1033 (c) Technical description

2.1033 (4) Type of emission:

Polarization	TX or RX	Emission Designator	Max EIRP/carrier dBW	Max EIRP density dBW/Hz
RHCP/LHCP	TX	5M00G1W	7.00	-24.00
RHCP/LHCP	TX	7M34G7W	46.00	13.40
RHCP/LHCP	TX	460KG7W	44.60	24.00
LHCP/RHCP	RX	32M0G7W	0.00	0.00

2.1033 (5) Frequency range: 29,0 – 30,0 GHz

2.1033 (6) Power range and Controls: The maximum output power is 20 W.

2.1033 (7) Maximum output power rating: 20 W

2.1033 (8) AC Voltage and Current: 115 V 400 Hz max. 2,3 A (220W)
maximum current consumption: 2,3 A during continuous transmission
BUC-HPA final stage: 17VDC, max. 7,5A.

Worst case Spurious Emissions: -15,512 dBm

Tests were performed November 30th till December 11th 2020

4.2.) Conducted output power

§ 25.202f

Conducted Measurement

Test Equipment used: EMV-205 + calibrated cabling

Tuned Frequency	Modulation	Symbol Rate	Recorded Measurement
GHz		Msym/s	dBm
29,001	BPSK	1	42,7
29,001	QPSK	1	42,8
29,001	8PSK	1	42,8
29,500	BPSK	1	42,7
29,500	QPSK	1	42,7
29,500	8PSK	1	42,7
29,999	BPSK	1	42,5
29,999	QPSK	1	42,7
29,999	8PSK	1	42,9
29,003	BPSK	5	42,7
29,003	QPSK	5	42,7
29,003	8PSK	5	42,8
29,500	BPSK	5	42,9
29,500	QPSK	5	43,0
29,500	8PSK	5	43,0
29,997	BPSK	5	42,8
29,997	QPSK	5	43,0
29,997	8PSK	5	43,0

4.3.) Spurious Emissions

§ 25.202f

Conducted Measurement

Test Equipment used: EMV-205 + calibrated cabling

Bandwidth calculation:

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

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

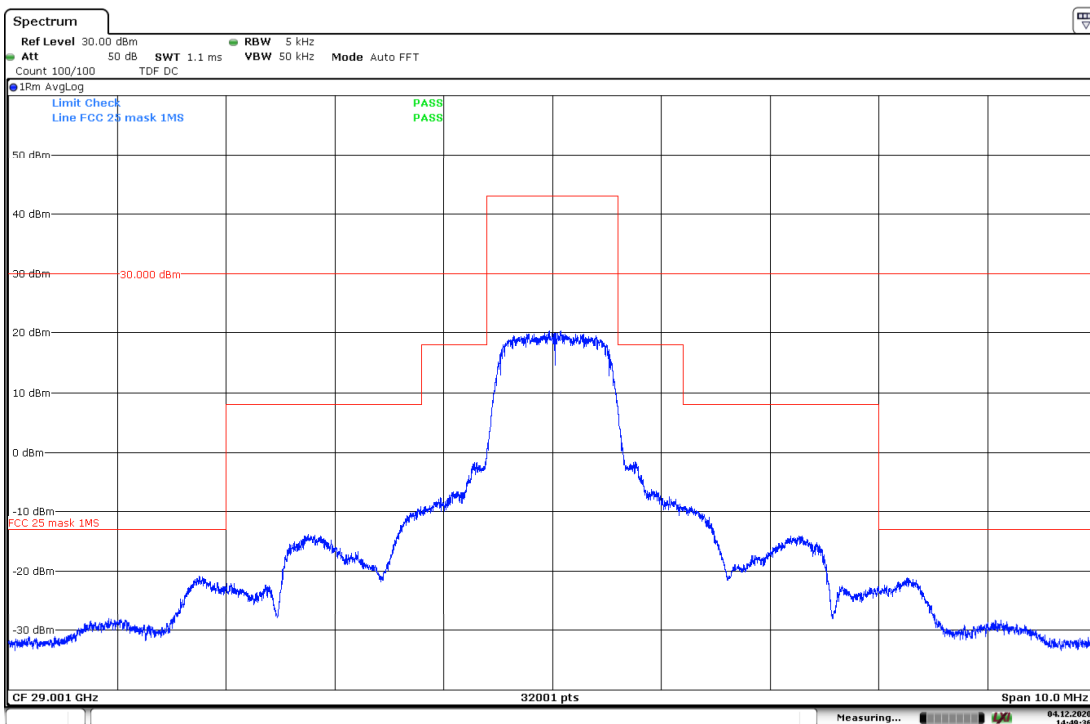
$$B_{5Ms/s} = 5 \times (1 + 0,2) = 6 \text{ MHz}$$

Low frequency / 1Msymbol/s

LIMIT SUBCLAUSE 25.202(f)

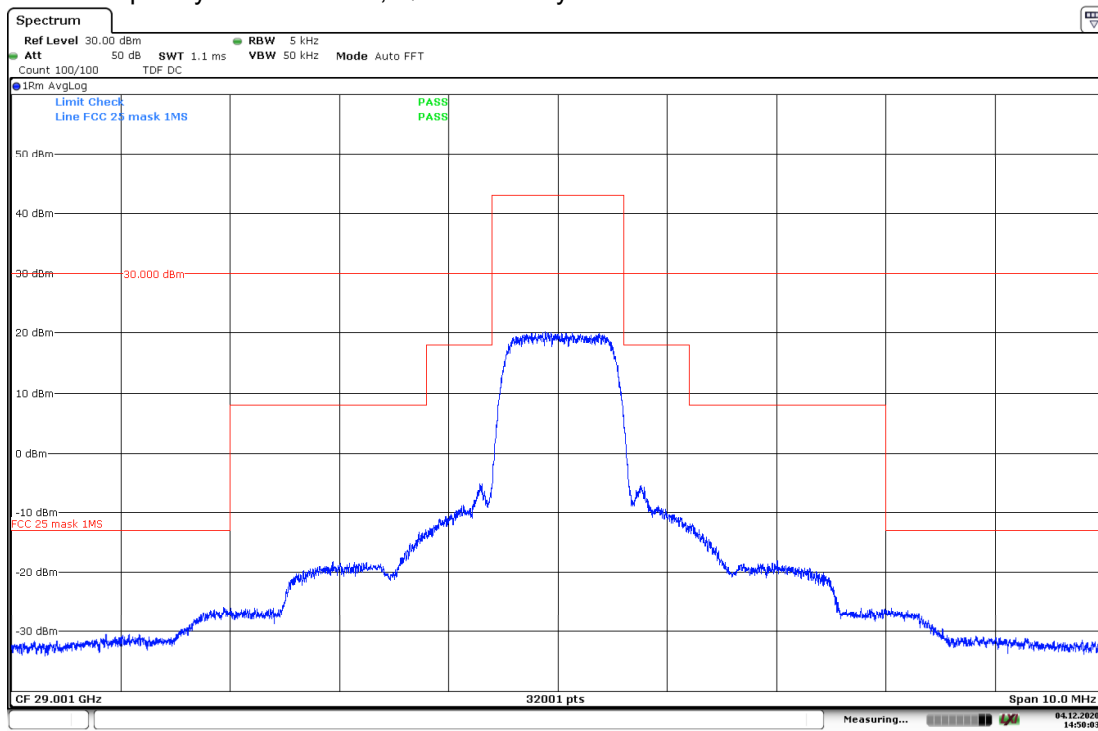
29,0004 – 29,0016 GHz	43 dBm
28,9998 – 29,0004 GHz / 29,0016 – 29,0022 GHz	18 dBm
28,9980 – 28,9998 GHz / 29,0022 – 29,0040 GHz	8 dBm
below 28,9980 GHz / above 29,0040 GHz	-13 dBm

Tuned frequency = 29.001 GHz, BPSK at 1Msymbol/s

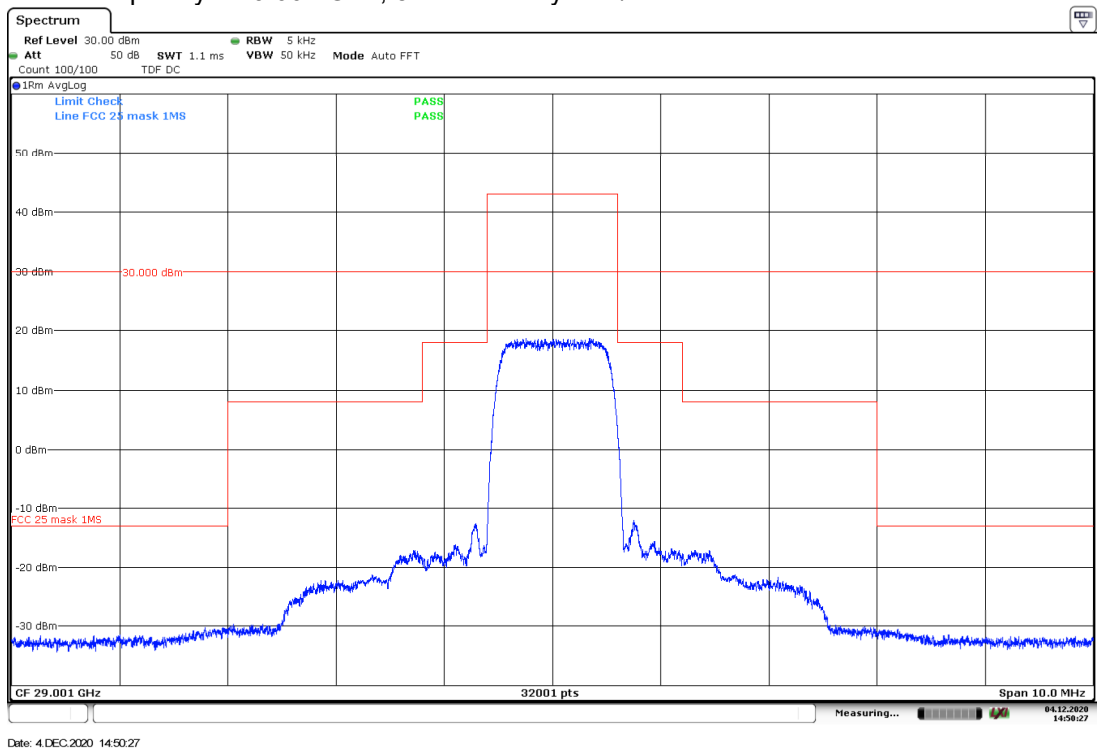


Date: 4 DEC 2020 14:49:36

Tuned frequency = 29.001 GHz, QPSK at 1Msymbol/s



Tuned frequency = 29.001 GHz, 8PSK at 1Msymbol/s

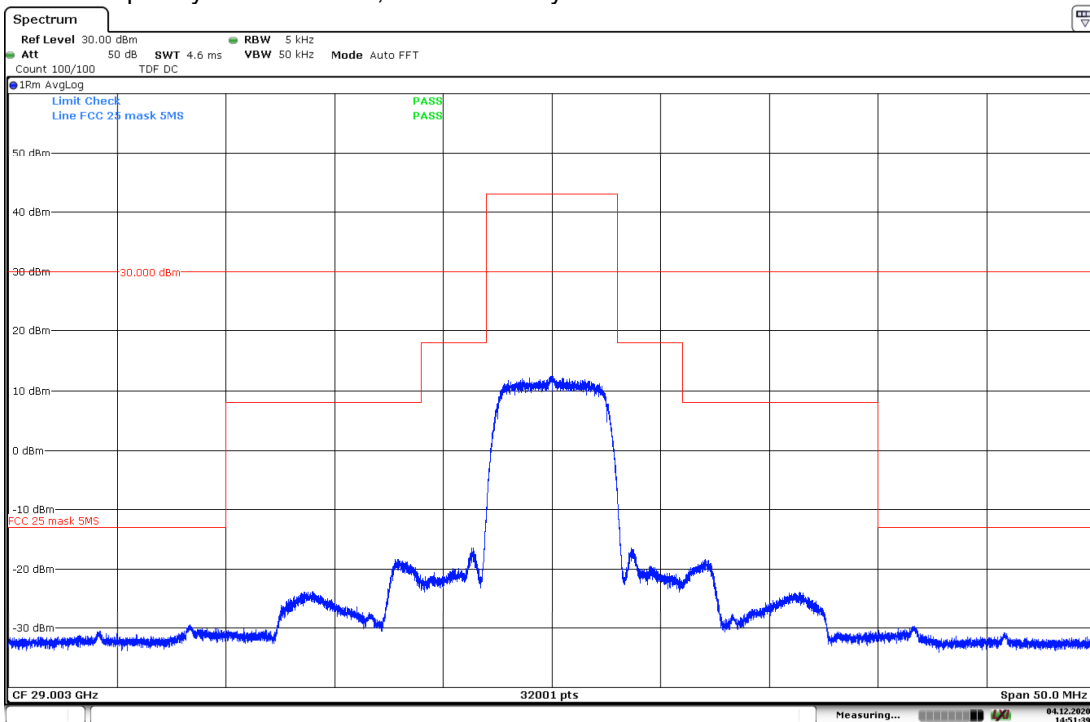


Low frequency / 5Msymbols/s

LIMIT SUBCLAUSE 25.202(f)

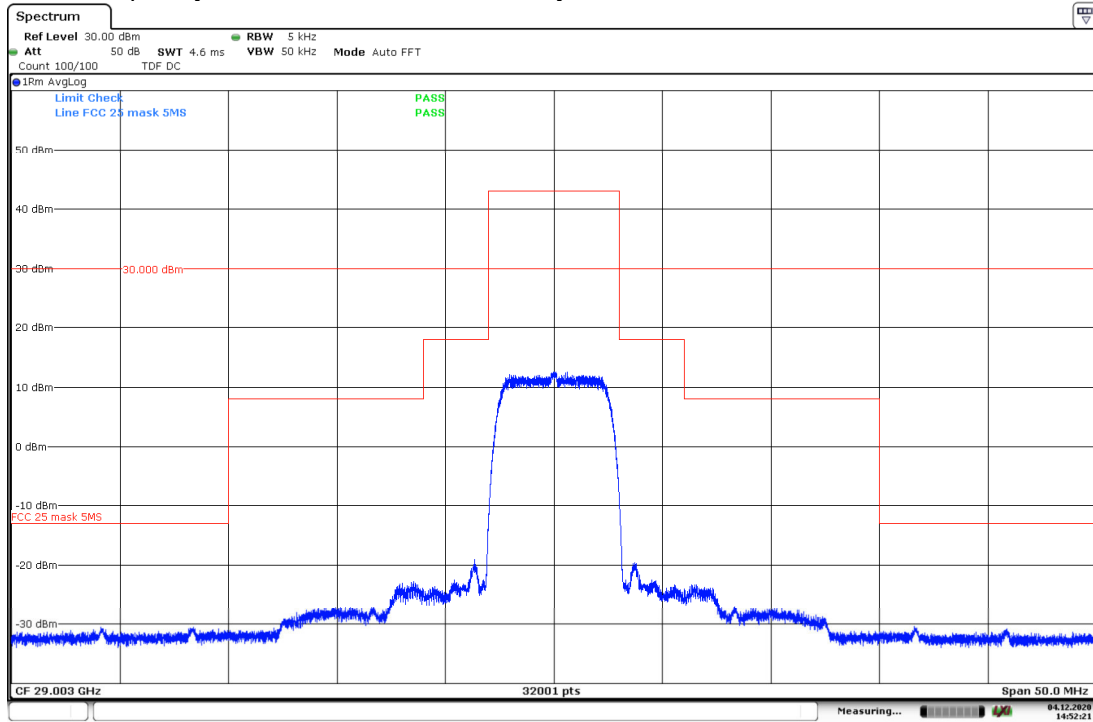
29,000 – 29,006 GHz	43 dBm
28,997 – 29,000GHz / 29,006 – 29,009 GHz	18 dBm
28,988 – 29,997 GHz / 29,009 – 29,018 GHz	8 dBm
below 28,988 GHz / above 29,018 GHz	-13 dBm

Tuned frequency = 29.003 GHz, BPSK at 5Msymbols/s



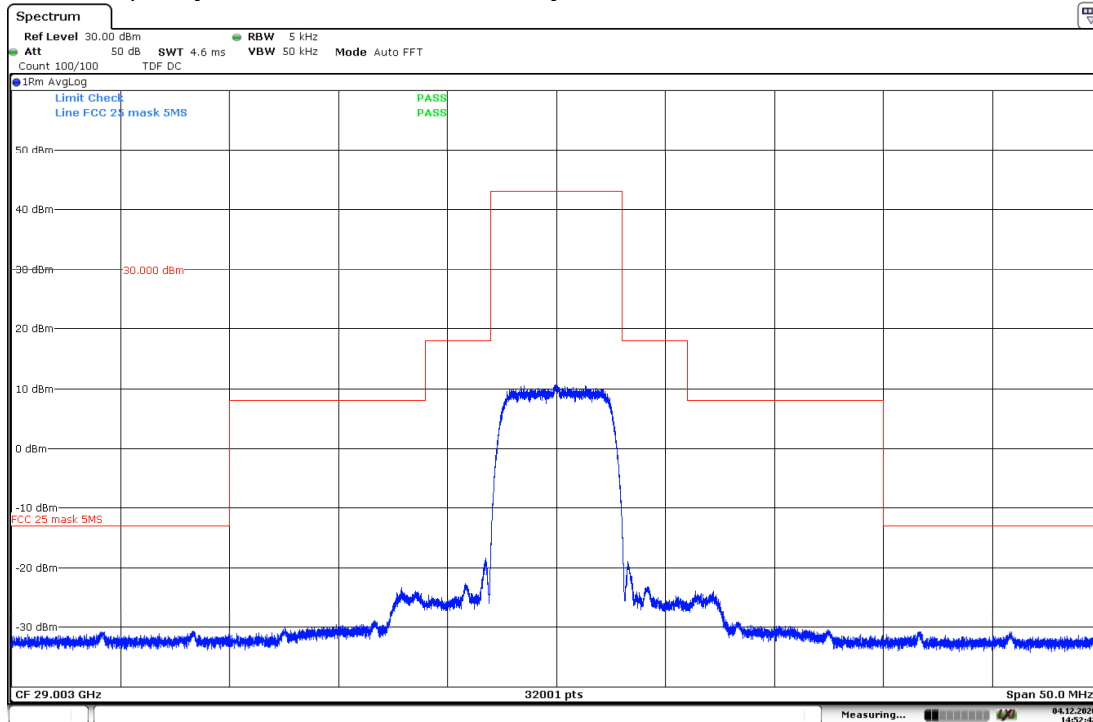
Date: 4.DEC.2020 14:51:39

Tuned frequency = 29.003 GHz, QPSK at 5Msymbols/s



Date: 4.DEC.2020 14:52:22

Tuned frequency = 29.003 GHz, 8PSK at 5Msymbols/s



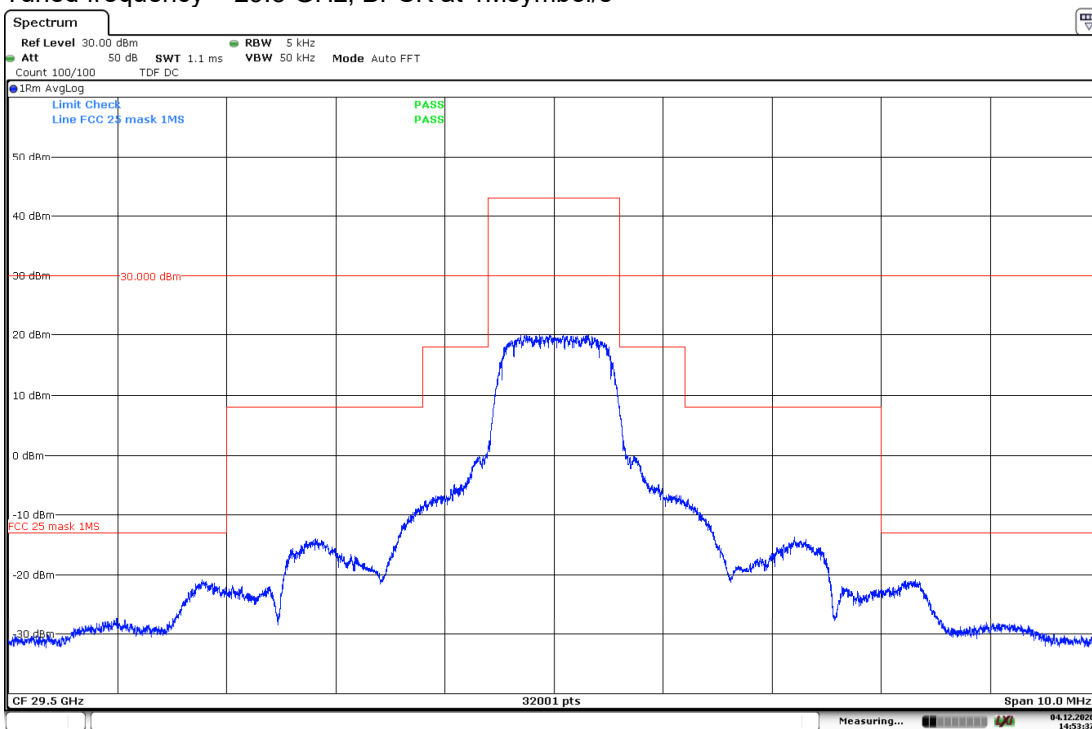
Date: 4.DEC.2020 14:52:42

Center frequency / 1Msymbol/s

LIMIT SUBCLAUSE 25.202(f)

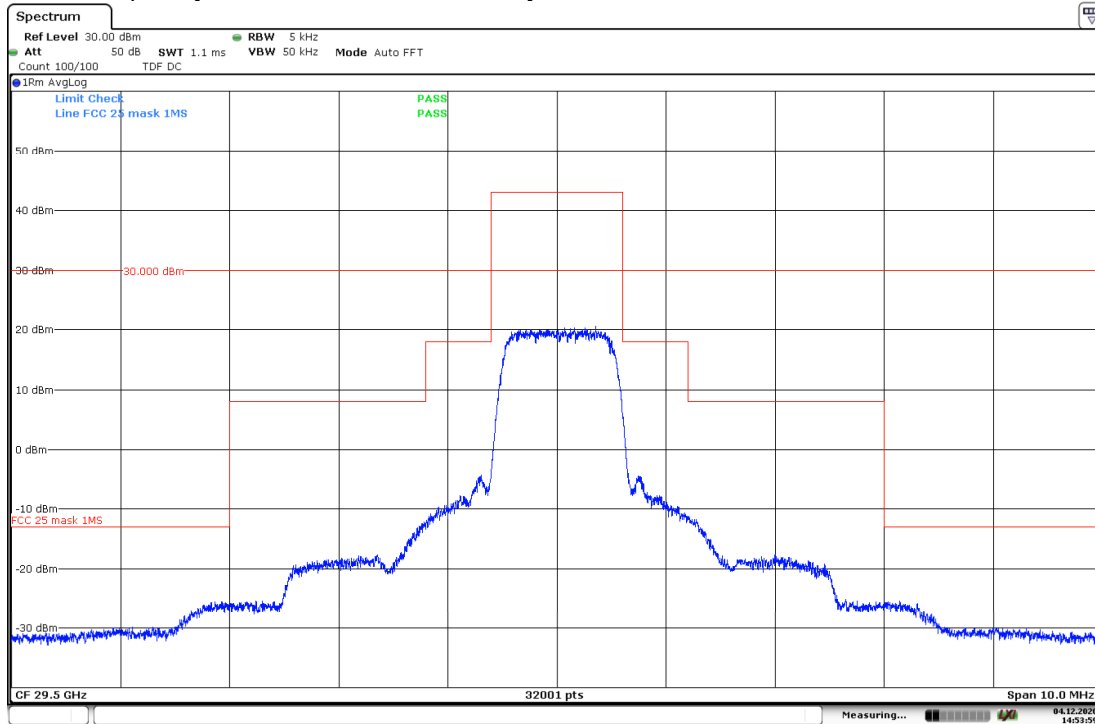
29,4994 – 29,5006 GHz	43 dBm
29,4988 – 29,4994 GHz / 29,5006 – 29,5012 GHz	18 dBm
29,4970 – 29,4988 GHz / 29,5012 – 29,5030 GHz	8 dBm
below 29,4970 GHz / above 29,5030 GHz	-13 dBm

Tuned frequency = 29.5 GHz, BPSK at 1Msymbol/s

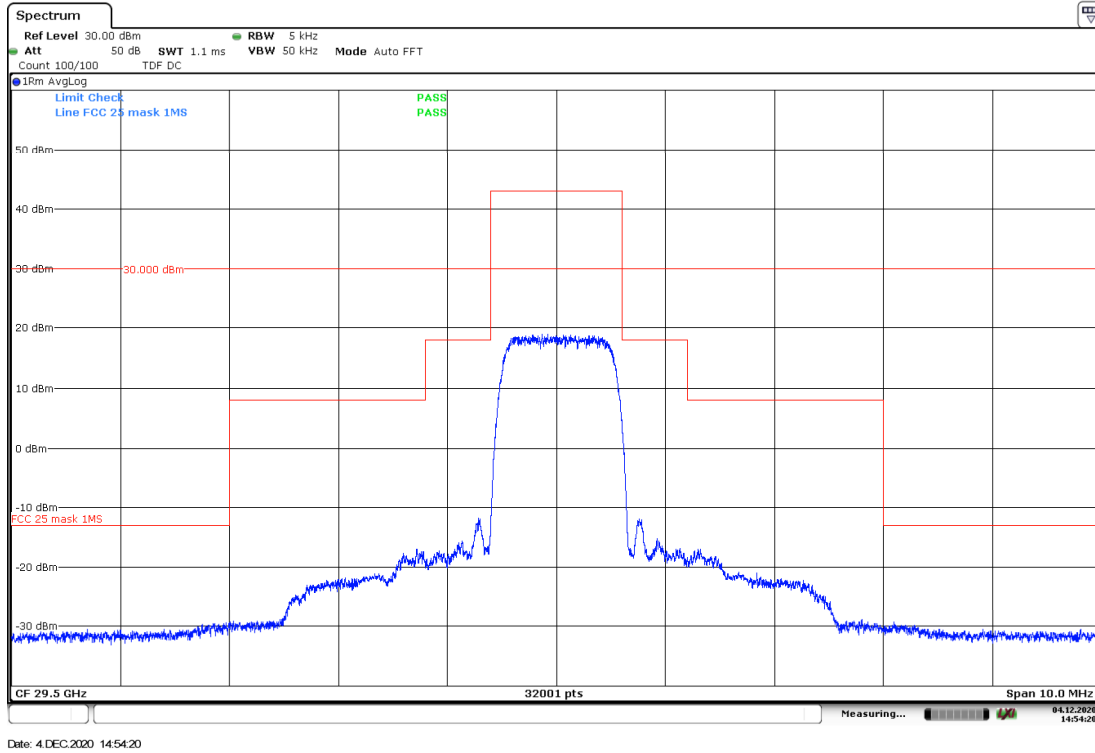


Date: 4.DEC.2020 14:53:38

Tuned frequency = 29.5 GHz, QPSK at 1Msymbol/s



Tuned frequency = 29.5 GHz, 8PSK at 1Msymbol/s

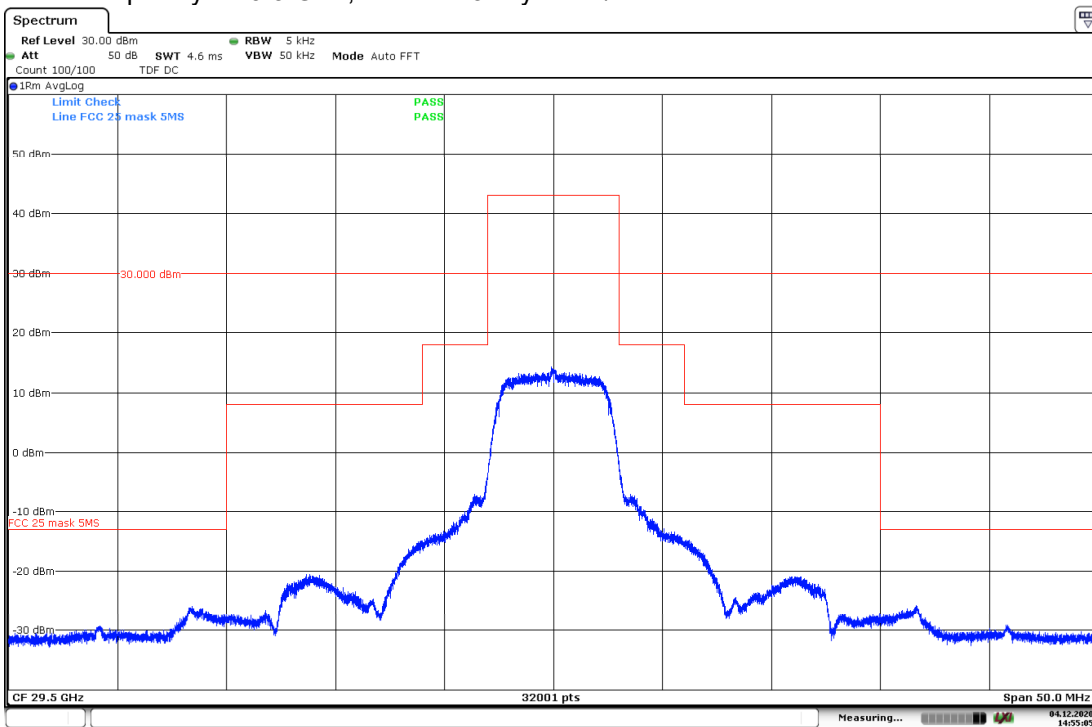


Center frequency / 5Msymbols/s

LIMIT SUBCLAUSE 25.202(f)

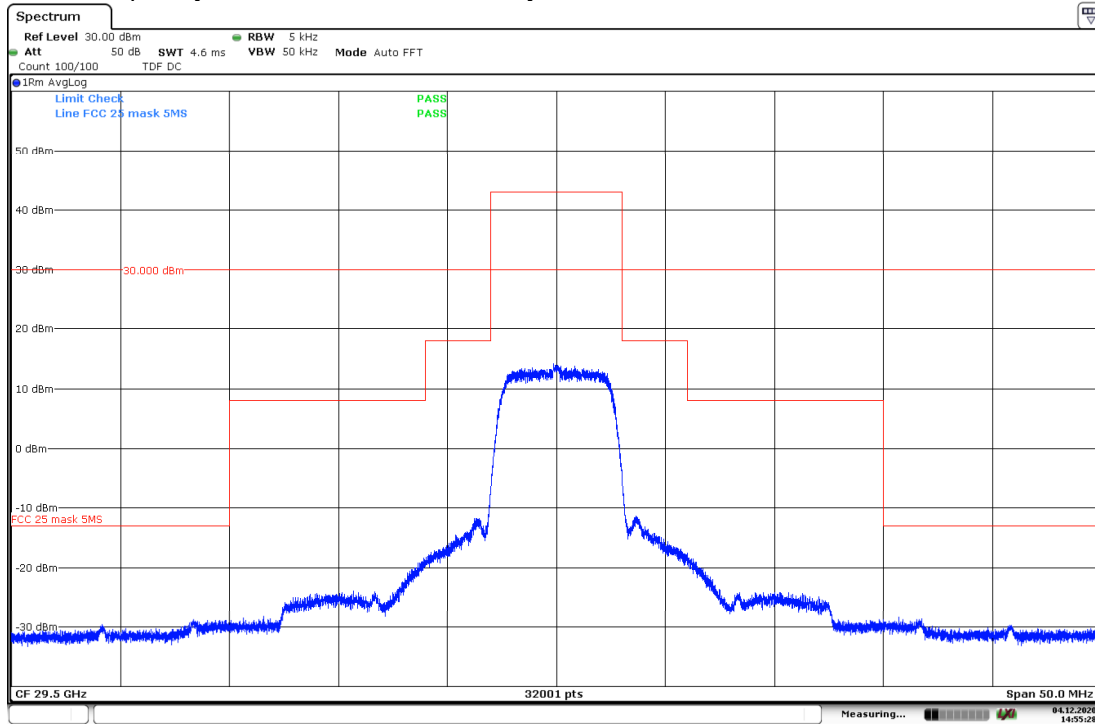
29,497 – 29,503 GHz	43 dBm
29,494 – 29,497 GHz / 29,503 – 29,506 GHz	18 dBm
29,485 – 29,494 GHz / 29,506 – 29,515 GHz	8 dBm
below 29,485 GHz / above 29,515 GHz	-13 dBm

Tuned frequency = 29.5 GHz, BPSK at 5Msymbols/s

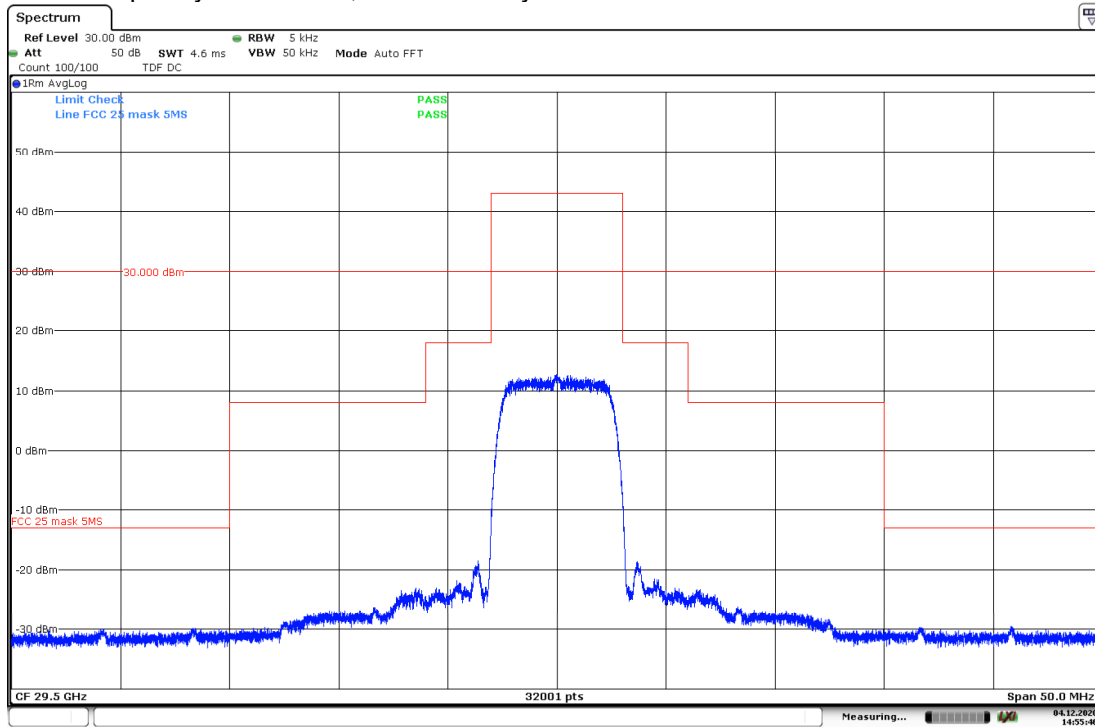


Date: 4.DEC.2020 14:55:05

Tuned frequency = 29.5 GHz, QPSK at 5Msymbols/s



Tuned frequency = 29.5 GHz, 8PSK at 5Msymbols/s

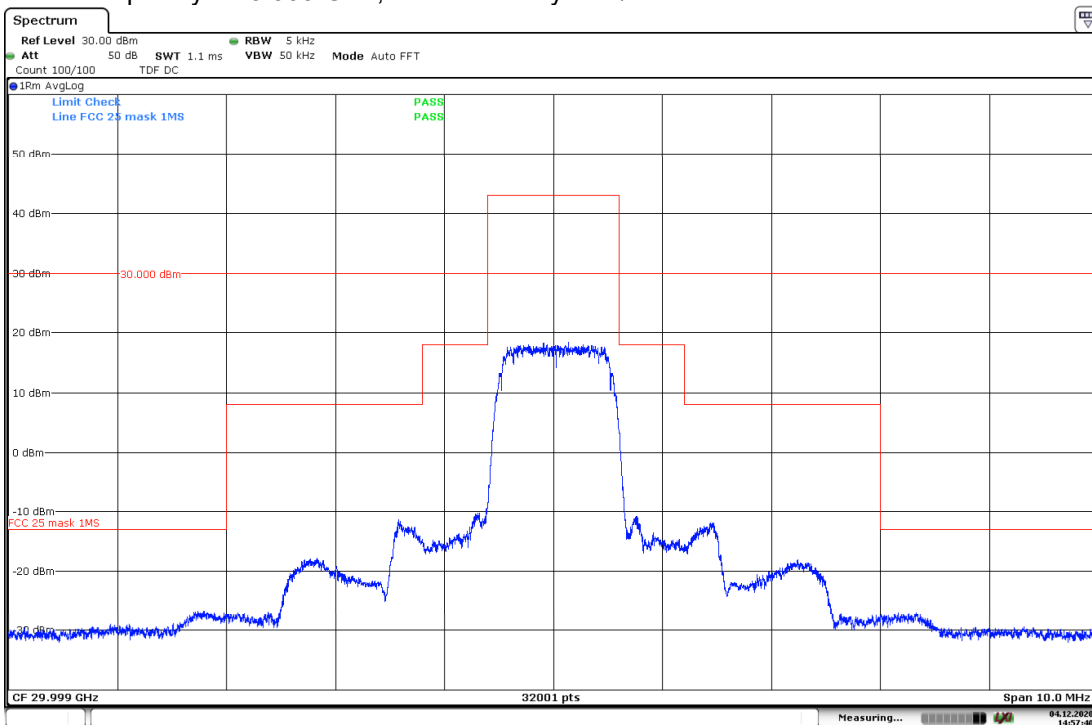


High frequency / 1Msymbol/s

LIMIT SUBCLAUSE 25.202(f)

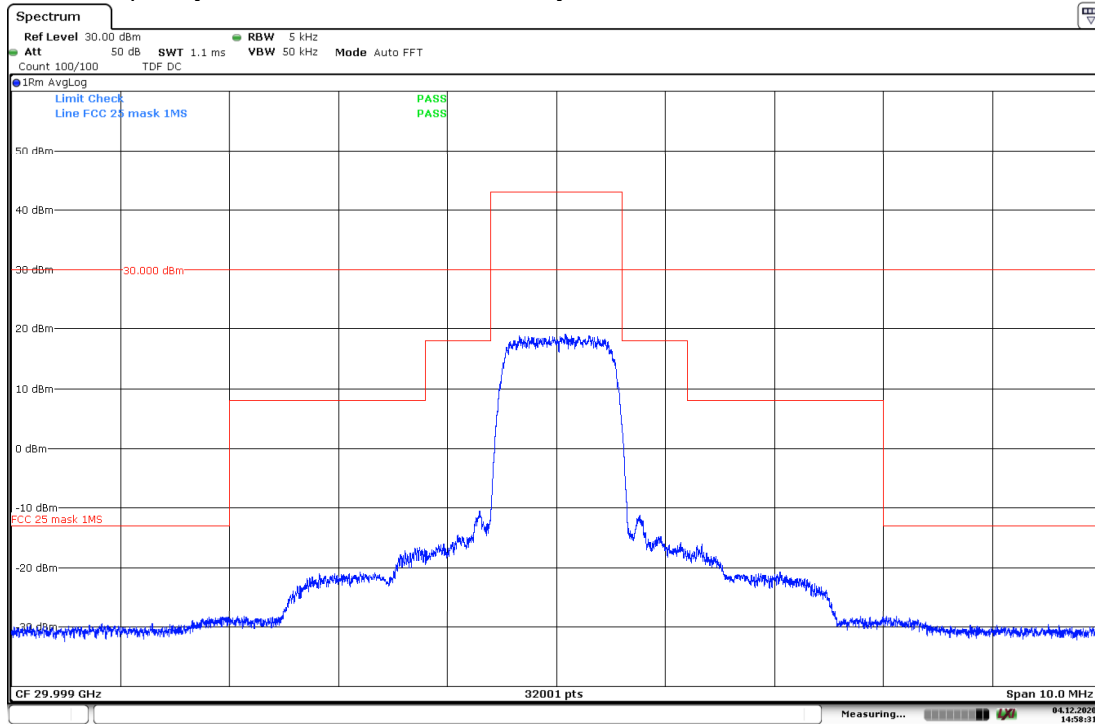
29,9984 – 29,9996 GHz	43 dBm
29,9978 – 29,9984 GHz / 29,9996 – 30,0002 GHz	18 dBm
29,9960 – 29,9978 GHz / 30,0002 – 30,0020 GHz	8 dBm
below 29,9960 GHz / above 30,0020 GHz	-13 dBm

Tuned frequency = 29.999 GHz, BPSK at 1Msymbol/s

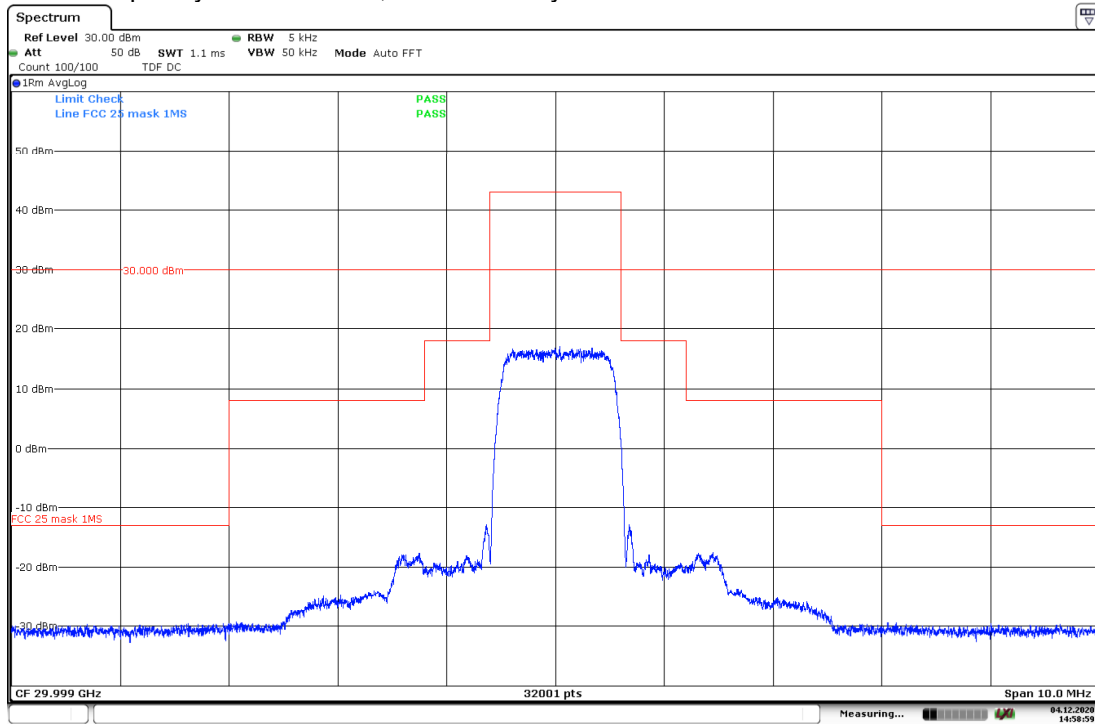


Date: 4.DEC.2020 14:57:40

Tuned frequency = 29.999 GHz, QPSK at 1Msymbol/s



Tuned frequency = 29.999 GHz, 8PSK at 1Msymbol/s

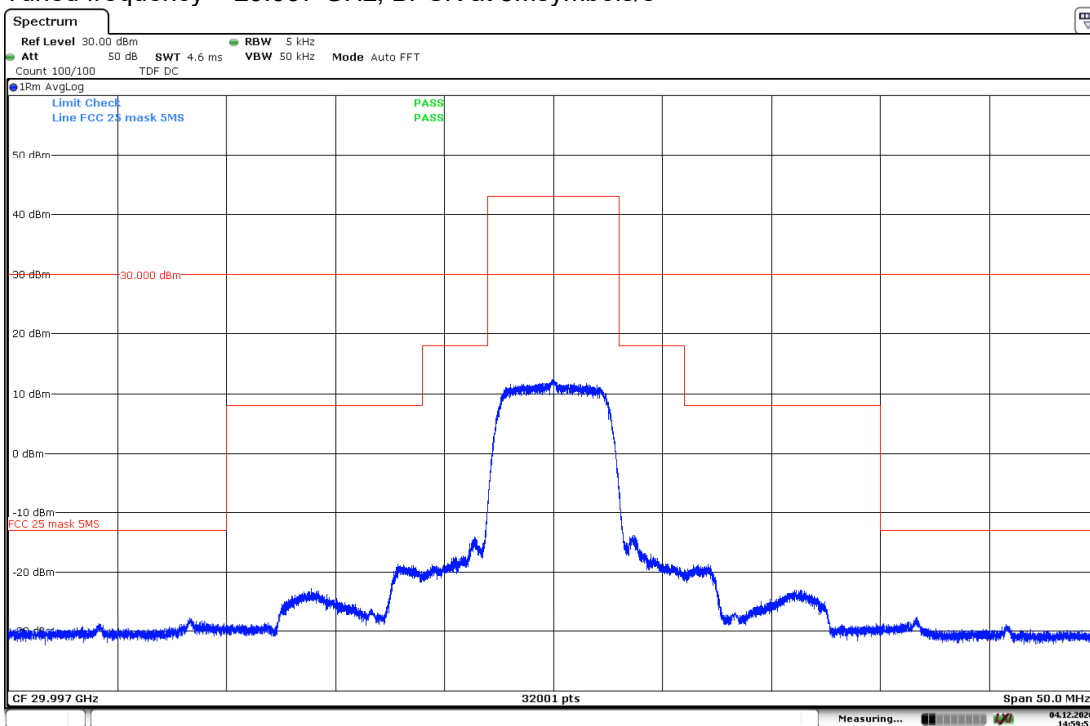


High frequency / 5Msymbols/s

LIMIT SUBCLAUSE 25.202(f)

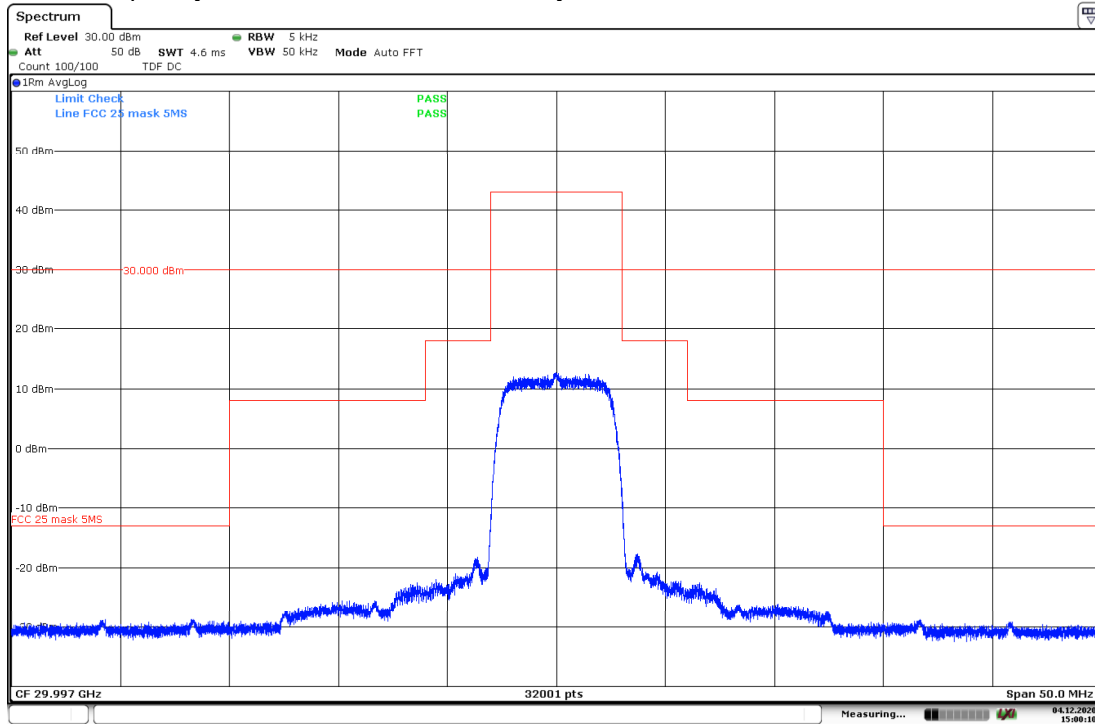
29,994 – 30,000 GHz	43 dBm
29,991 – 29,994 GHz / 30,000 – 30,003 GHz	18 dBm
29,982 – 29,991 GHz / 30,003 – 30,012 GHz	8 dBm
below 29,982 GHz / above 30,012 GHz	-13 dBm

Tuned frequency = 29.997 GHz, BPSK at 5Msymbols/s

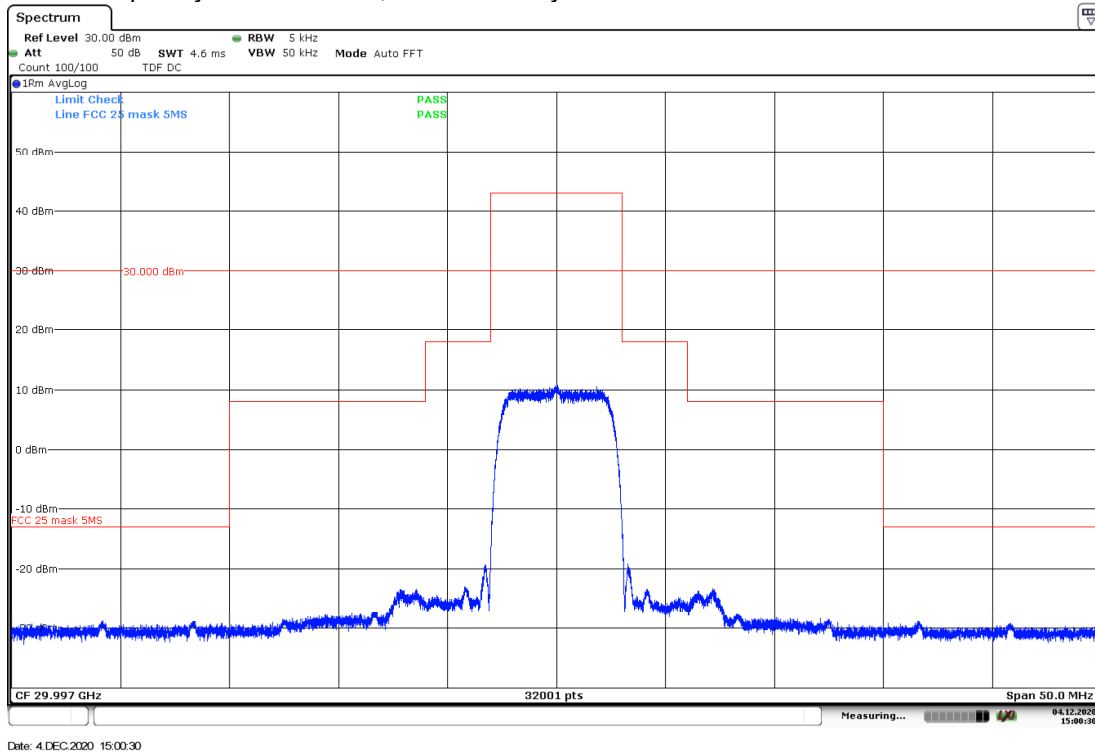


Date: 4.DEC.2020 14:59:51

Tuned frequency = 29.997 GHz, QPSK at 5Msymbols/s



Tuned frequency = 29.997 GHz, 8PSK at 5Msymbols/s



4.4.) Spurious Emission Limits

§ 2.1053, § 25.202f

Measurements were performed radiated from 30 MHz to 100 GHz except for the frequency range 26,5 GHz – 40 GHz which was measured conducted at the waveguide flange output of the KRFU.

As a measurement bandwidth of 4 kHz was not available, most measurements were performed with 5 kHz bandwidth. In some frequency ranges, even higher bandwidth was used to comply also with ETSI measurement requirements. In general no bandwidth correction was applied.

Harmonic mixers were utilized above 40 GHz.

At frequencies above 18 GHz correction data (cable losses, freespace loss, antenna factors) was not applied by software but afterwards. So the spectrum analyser screenshots show the uncorrected values.

The spurious emissions measurements were performed at low (29,0 GHz), center (29,5 GHz) and high (30,0 GHz) frequencies using all 3 modulation schemes (BPSK, QPSK, 8PSK) at 1 Msymbol/s and 5 Msymbols/s data rate.

4.4.1.) Spurious emissions test data

Low frequency

Tuned frequency = 29.001 GHz, BPSK at 1Msymbol/s, Transmitter on

Frequency range GHz	Frequency GHz	EIRP/ conducted dBm	Measurement distance		RBW kHz	Limit dBm	Margin dB
			Required meter	Used meter			
0,03-1	1	-56,4	3	3	100	-13	-43,4
1-18	1,740	-39,764	1	3	1000	-13	-26,764
18-26,5	20,305	-44,663	1	3	5	-13	-31,663
26,5-40	39,81	-19,5	n.a.	n.a.	5	-13	-6,5
40-60	59,52	-20,303	1	3	5	-13	-7,303
60-90	67,888	-16,112	1	1	5	-13	-3,112
85-100	87,027	-38,553	1	3	5	-13	-25,553

Tuned frequency = 29.001 GHz, QPSK at 1Msymbol/s, Transmitter on

Frequency range GHz	Frequency GHz	EIRP/ conducted dBm	Measurement distance		RBW kHz	Limit dBm	Margin dB
			Required meter	Used meter			
0,03-1	1	-54,741	3	3	100	-13	-41,741
1-18	17,881	-40,723	1	3	1000	-13	-27,723
18-26,5	24,804	-56,214	1	3	5	-13	-43,214
26,5-40	39,393	-19,01	n.a.	n.a.	5	-13	-6,01
40-60	59,553	-20,608	1	3	5	-13	-7,608
60-90	67,705	-17,036	1	1	5	-13	-4,036
85-100	86,976	-39,258	1	3	5	-13	-26,258

Tuned frequency = 29.001 GHz, 8PSK at 1Msymbol/s, Transmitter on

Frequency range	Frequency	EIRP/ conducted	Measurement distance		RBW	Limit	Margin
			Required	Used			
GHz	GHz	dBm	meter	meter	kHz	dBm	dB
0,03-1	1	-55,201	3	3	100	-13	-42,201
1-18	17,892	-40,777	1	3	1000	-13	-27,777
18-26,5	25,536	-55,803	1	3	5	-13	-42,803
26,5-40	39,842	-19,1	n.a.	n.a.	5	-13	-6,1
40-60	59,473	-19,979	1	3	5	-13	-6,979
60-90	67,66	-16,332	1	1	5	-13	-3,332
85-100	86,779	-38,838	1	3	5	-13	-25,838

Tuned frequency = 29.003 GHz, BPSK at 5Msymbols/s, Transmitter on

Frequency range	Frequency	EIRP/ conducted	Measurement distance		RBW	Limit	Margin
			Required	Used			
GHz	GHz	dBm	meter	meter	kHz	dBm	dB
0,03-1	1	-55,096	3	3	100	-13	-42,096
1-18	17,956	-40,939	1	3	1000	-13	-27,939
18-26,5	26,224	-55,358	1	3	5	-13	-42,358
26,5-40	39,625	-19,62	n.a.	n.a.	5	-13	-6,62
40-60	57,279	-17,586	1	3	5	-13	-4,586
60-90	67,816	-16,412	1	1	5	-13	-3,412
85-100	87,017	-39,054	1	3	5	-13	-26,054

Tuned frequency = 29.003 GHz, QPSK at 5Msymbols/s, Transmitter on

Frequency range	Frequency	EIRP/ conducted	Measurement distance		RBW	Limit	Margin
			Required	Used			
GHz	GHz	dBm	meter	meter	kHz	dBm	dB
0,03-1	1	-55,148	3	3	100	-13	-42,148
1-18	17,881	-39,809	1	3	1000	-13	-26,809
18-26,5	26,32	-55,689	1	3	5	-13	-42,689
26,5-40	39,644	-18,36	n.a.	n.a.	5	-13	-5,36
40-60	59,425	-19,466	1	3	5	-13	-6,466
60-90	67,503	-16,582	1	1	5	-13	-3,582
85-100	86,9	-38,555	1	3	5	-13	-25,555

Tuned frequency = 29.003 GHz, 8PSK at 5Msymbols/s, Transmitter on

Frequency range GHz	Frequency GHz	EIRP/ conducted dBm	Measurement distance		RBW kHz	Limit dBm	Margin dB
			Required meter	Used meter			
0,03-1	1	-54,97	3	3	100	-13	-41,97
1-18	1,741	-44,603	1	3	1000	-13	-31,603
18-26,5	18,891	-58,160	1	3	5	-13	-45,16
26,5-40	39,887	-18,46	n.a.	n.a.	5	-13	-5,46
40-60	59,496	-20,396	1	3	5	-13	-7,396
60-90	67,668	-17,061	1	1	5	-13	-4,061
85-100	86,939	-38,422	1	3	5	-13	-25,422

Center frequency

Tuned frequency = 29.5 GHz, BPSK at 1Msymbol/s, Transmitter on

Frequency range GHz	Frequency GHz	EIRP/ conducted dBm	Measurement distance		RBW kHz	Limit dBm	Margin dB
			Required meter	Used meter			
0,03-1	1	-55,935	3	3	100	-13	-42,935
1-18	1,725	-39,636	1	3	1000	-13	-26,636
18-26,5	25,748	-56,19	1	3	5	-13	-43,19
26,5-40	39,536	-18,97	n.a.	n.a.	5	-13	-5,97
40-60	59,823	-20,428	1	3	5	-13	-7,428
60-90	67,758	-16,479	1	1	5	-13	-3,479
85-100	86,857	-38,710	1	3	5	-13	-25,71

Tuned frequency = 29.5 GHz, QPSK at 1Msymbol/s, Transmitter on

Frequency range GHz	Frequency GHz	EIRP/ conducted dBm	Measurement distance		RBW kHz	Limit dBm	Margin dB
			Required meter	Used meter			
0,03-1	1	-55,01	3	3	100	-13	-42,01
1-18	1,725	-43,17	1	3	1000	-13	-30,17
18-26,5	25,983	-55,831	1	3	5	-13	-42,831
26,5-40	39,859	-19,2	n.a.	n.a.	5	-13	-6,2
40-60	59,56	-20,357	1	3	5	-13	-7,357
60-90	67,593	-16,65	1	1	5	-13	-3,65
85-100	86,807	-39,205	1	3	5	-13	-26,205

Tuned frequency = 29.5 GHz, 8PSK at 1Msymbol/s, Transmitter on

Frequency range GHz	Frequency GHz	EIRP/ conducted dBm	Measurement distance		RBW kHz	Limit dBm	Margin dB
			Required meter	Used meter			
0,03-1	1	-54,446	3	3	100	-13	-41,446
1-18	17,968	-40,398	1	3	1000	-13	-27,398
18-26,5	24,637	-56,713	1	3	5	-13	-43,713
26,5-40	39,84	-19,45	n.a.	n.a.	5	-13	-6,45
40-60	59,543	-20,529	1	3	5	-13	-7,529
60-90	67,959	-16,703	1	1	5	-13	-3,703
85-100	86,917	-38,904	1	3	5	-13	-25,904

Tuned frequency = 29.5 GHz, BPSK at 5Msymbols/s, Transmitter on

Frequency range	Frequency	EIRP/ conducted	Measurement distance		RBW	Limit	Margin
			Required	Used			
GHz	GHz	dBm	meter	meter	kHz	dBm	dB
0,03-1	1	-54,659	3	3	100	-13	-41,659
1-18	17,817	-40,055	1	3	1000	-13	-27,055
18-26,5	20,151	-56,907	1	3	5	-13	-43,907
26,5-40	39,786	-19,2	n.a.	n.a.	5	-13	-6,2
40-60	59,483	-19,928	1	3	5	-13	-6,928
60-90	67,647	-16,833	1	1	5	-13	-3,833
85-100	86,787	-38,977	1	3	5	-13	-25,977

Tuned frequency = 29.5 GHz, QPSK at 5Msymbols/s, Transmitter on

Frequency range	Frequency	EIRP/ conducted	Measurement distance		RBW	Limit	Margin
			Required	Used			
GHz	GHz	dBm	meter	meter	kHz	dBm	dB
0,03-1	1	-55,092	3	3	100	-13	-42,092
1-18	17,882	-40,477	1	3	1000	-13	-27,477
18-26,5	24,112	-56,901	1	3	5	-13	-43,901
26,5-40	39,428	-18,82	n.a.	n.a.	5	-13	-5,82
40-60	41,037	-18,792	1	3	5	-13	-5,792
60-90	67,931	-16,987	1	1	5	-13	-3,987
85-100	86,889	-38,767	1	3	5	-13	-25,767

Tuned frequency = 29.5 GHz, 8PSK at 5Msymbols/s, Transmitter on

Frequency range	Frequency	EIRP/ conducted	Measurement distance		RBW	Limit	Margin
			Required	Used			
GHz	GHz	dBm	meter	meter	kHz	dBm	dB
0,03-1	1	-55,28	3	3	100	-13	-42,28
1-18	1,742	-48,949	1	3	1000	-13	-35,949
18-26,5	24,192	-57,369	1	3	5	-13	-44,369
26,5-40	39,848	-18,58	n.a.	n.a.	5	-13	-5,58
40-60	59,525	-20,062	1	3	5	-13	-7,062
60-90	68,022	-16,595	1	1	5	-13	-3,595
85-100	87,03	-38,782	1	3	5	-13	-25,782

High frequency

Tuned frequency = 29.999 GHz, BPSK at 1Msymbol/s, Transmitter on

Frequency range GHz	Frequency GHz	EIRP/ conducted dBm	Measurement distance		RBW kHz	Limit dBm	Margin dB
			Required meter	Used meter			
0,03-1	1	-56,127	3	3	100	-13	-43,127
1-18	1,949	-44,768	1	3	1000	-13	-31,768
18-26,5	25,303	-56,205	1	3	5	-13	-43,205
26,5-40	39,791	-18,97	n.a.	n.a.	5	-13	-5,97
40-60	44,367	-23,284	1	3	5	-13	-10,284
60-90	67,576	-16,672	1	1	5	-13	-3,672
85-100	86,982	-39,437	1	3	5	-13	-26,437

Tuned frequency = 29,999 GHz, QPSK at 1Msymbol/s, Transmitter on

Frequency range GHz	Frequency GHz	EIRP/ conducted dBm	Measurement distance		RBW kHz	Limit dBm	Margin dB
			Required meter	Used meter			
0,03-1	1	-56,062	3	3	100	-13	-43,062
1-18	1,949	-45,109	1	3	1000	-13	-32,109
18-26,5	25,355	-55,711	1	3	5	-13	-42,711
26,5-40	39,452	-18,64	n.a.	n.a.	5	-13	-5,64
40-60	44,367	-16,775	1	3	5	-13	-3,775
60-90	68,201	-15,512	1	1	5	-13	-2,512
85-100	86,857	-39,230	1	3	5	-13	-26,23

Tuned frequency = 29,999 GHz, 8PSK at 1Msymbol/s, Transmitter on

Frequency range GHz	Frequency GHz	EIRP/ conducted dBm	Measurement distance		RBW kHz	Limit dBm	Margin dB
			Required meter	Used meter			
0,03-1	1	-55,534	3	3	100	-13	-42,534
1-18	17,954	-40,236	1	3	1000	-13	-27,236
18-26,5	26,049	-56,159	1	3	5	-13	-43,159
26,5-40	39,431	-19,1	n.a.	n.a.	5	-13	-6,1
40-60	44,368	-17,044	1	3	5	-13	-4,044
60-90	67,706	-16,846	1	1	5	-13	-3,846
85-100	86,84	-38,681	1	3	5	-13	-25,681

Tuned frequency = 29,997 GHz, BPSK at 5Msymbols/s, Transmitter on

Frequency range	Frequency	EIRP/ conducted	Measurement distance		RBW	Limit	Margin
			Required	Used			
GHz	GHz	dBm	meter	meter	kHz	dBm	dB
0,03-1	0,261	-49,896	3	3	100	-13	-36,896
1-18	1,949	-47,991	1	3	1000	-13	-34,991
18-26,5	25,746	-56,39	1	3	5	-13	-43,39
26,5-40	39,402	-19,24	n.a.	n.a.	5	-13	-6,24
40-60	44,351	-15,718	1	3	5	-13	-2,718
60-90	67,762	-16,399	1	1	5	-13	-3,399
85-100	86,901	-38,645	1	3	5	-13	-25,645

Tuned frequency = 29,997 GHz, QPSK at 5Msymbols/s, Transmitter on

Frequency range	Frequency	EIRP/ conducted	Measurement distance		RBW	Limit	Margin
			Required	Used			
GHz	GHz	dBm	meter	meter	kHz	dBm	dB
0,03-1	1	-52,224	3	3	100	-13	-39,224
1-18	1,948	-46,576	1	3	1000	-13	-33,576
18-26,5	25,709	-56,123	1	3	5	-13	-43,123
26,5-40	39,817	-19,02	n.a.	n.a.	5	-13	-6,02
40-60	44,351	-22,378	1	3	5	-13	-9,378
60-90	67,571	-16,523	1	1	5	-13	-3,523
85-100	87,038	-38,902	1	3	5	-13	-25,902

Tuned frequency = 29,997 GHz, 8PSK at 5Msymbols/s, Transmitter on

Frequency range	Frequency	EIRP/ conducted	Measurement distance		RBW	Limit	Margin
			Required	Used			
GHz	GHz	dBm	meter	meter	kHz	dBm	dB
0,03-1	1	-53,79	3	3	100	-13	-40,79
1-18	1,949	-48,696	1	3	1000	-13	-35,696
18-26,5	25,508	-56,533	1	3	5	-13	-43,533
26,5-40	39,845	-18,79	n.a.	n.a.	5	-13	-5,79
40-60	59,505	-20,295	1	3	5	-13	-7,295
60-90	67,645	-16,864	1	1	5	-13	-3,864
85-100	86,984	-38,887	1	3	5	-13	-25,887