

Test Report

HELEM2112000538-1



INTENTIONAL RADIATOR TESTS ACCORDING TO FCC PART 15 C AND ISED CANADA REQUIREMENTS

Equipment Under Test: Virtual Reality Headset

Model: Varjo Aero

Manufacturer: Varjo Technologies Oy
Vuorikatu 20
FI-00100, Helsinki
Finland

Customer: Varjo Technologies Oy
Vuorikatu 20
FI-00100, Helsinki
Finland

FCC Rule Part: 15.247
IC Rule Part: RSS-247, Issue 2, 2017

KDB: RSS-GEN Issue 5 Amendment 2, 2021
558074 D01 15.247 Meas Guidance v05r02
Guidance for Compliance Measurements on Digital Transmission Systems,
Frequency Hopping Spread Spectrum System, and Hybrid System Devices
Operating Under §15.247 of the FCC rules (April 2, 2019)

- partial testing; see Summary of Testing for details

Date: 2 February 2022

Issued by:

A handwritten signature in blue ink, appearing to read 'R. Repo'.

Rauno Repo
Senior EMC Specialist

Date: 2 February 2022

Checked by:

A handwritten signature in blue ink, appearing to read 'Henri Mäki'.

Henri Mäki
Testing Engineer

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GENERAL REMARKS

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

RELEASE HISTORY

Version	Changes	Issued
1.0	Initial release	2 February 2022

PRODUCT DESCRIPTION

Equipment Under Test

Equipment Under Test:	Virtual Reality Headset
Model:	Varjo Aero
Type:	-
Trademark:	Varjo
Serial no:	V0032DB19AP1210238
Highest frequency:	4.1 GHz
FCC ID:	2AROD-004
IC:	24483-004
Radio module or chip:	Nordic Semiconductor nRF24L01 (two radio chips)

The EUT was tested as a tabletop unit. The equipment includes two Enhanced ShockBurst radio chips (Nordic Semiconductor nRF24L01), both of which have their own dedicated antennas.

General Description

The equipment under test is a virtual reality headset.

Classification

Fixed device	☐
Mobile Device (Human body distance > 20cm)	☐
Portable Device (Human body distance < 20cm)	☒

Modifications Incorporated in the EUT

No modifications.

Ratings and declarations

Operating Frequency Range (OFR):	2402 - 2480 MHz
Channels:	40
Channel separation:	2 MHz
Transmission technique:	DSSS
Modulation:	GFSK
Antenna type:	Integrated ceramic chip antennas
Antenna count:	2
Integral Antenna gain:	1.1 dBi

Power Supply

Rated voltage:	12 V
Rated current:	3 A
Rated frequency:	DC

Mechanical Size of the EUT

Height: 170 mm	Width: 200 mm	Length: 300 mm
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Peripherals

VR adapter:	Power supply and data communication between laptop and EUT.
Laptop:	Razer Blade RZ09-0330. Device configuration.
AC/DC power supply:	Razer RC30-024801. Power supply to laptop.
AC/DC power supply:	Adapter Technology ATS036T-W120V. Power supply to EUT.

The peripherals were provided by the customer.

SUMMARY OF TESTING

Test Specification	Description of Test	Result
§15.203	Antenna requirement	PASS
§15.207(a) / RSS-GEN 8.8	Conducted Emissions on Power Supply Lines	PASS
§15.247(b)(3) / RSS-247 5.4(d)	Maximum Peak Conducted Output Power	PASS
§15.247(a)(2) / RSS-247 5.2(a)	6 dB Bandwidth	N/T ⁽¹⁾
§15.247(e) / RSS-247 5.2(b)	Power Spectral Density	N/T ⁽¹⁾
RSS-GEN 6.7	99% Occupied Bandwidth	N/T ⁽¹⁾
§15.247(d) / RSS-247 5.5	100 kHz Bandwidth of Frequency Band Edges and Conducted Spurious Emissions	N/T ⁽¹⁾
§15.209(a), §15.247(d) / RSS-247 5.5	Radiated Emissions Within the Restricted Bands	PASS

¹⁾ Not tested by the request of the customer

The decision rule applied for the tests results stated in this test report is according to the requirements of section 1.3 of ANSI C63.10-2013.

EUT Test Conditions during Testing

The EUT's radio was in continuous transmit mode during all the tests and was configured into the wanted channel using software provided by the manufacturer. During testing a test image was visible on the displays, the eye tracking cameras were running in test mode, Steam tracking was running, cooling fan was set to constant 10% running speed, white noise was played from the earphones, and internal logging of temperatures, voltage and current consumption was running.

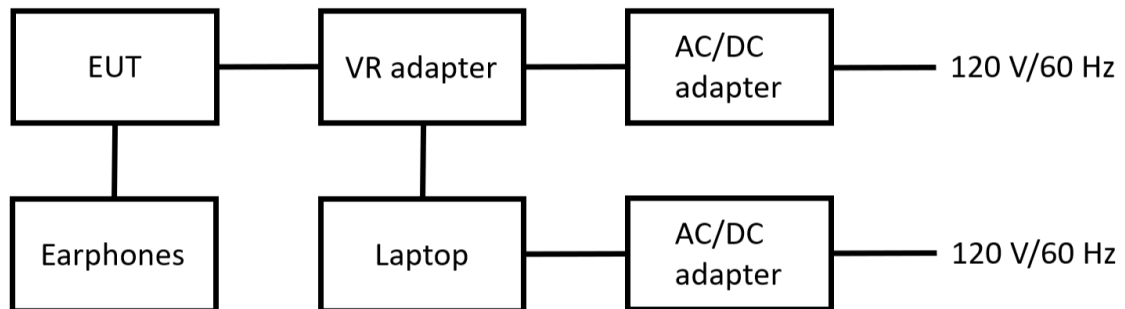


Figure 1: Test setup block diagram

Table 1: Test frequencies and settings

Channel	Frequency (MHz)
Low	2402
Mid	2440
High	2480

Test Facility

Testing Laboratory / address: FCC designation number: FI0002 ISED CAB identifier: T004	SGS Fimko Ltd Takomotie 8 FI-00380, HELSINKI FINLAND
Test Site:	☐ K10LAB, ISED Canada registration number: 8708A-1 ☒ K5LAB, ISED Canada registration number: 8708A-2 ☐ T10LAB

TEST RESULTS

Antenna Requirement

Standard: FCC Rule §15.203
Tested by: RRE
Date: 19 January 2022

FCC Rule: 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Specification	Requirement (at least one of the following shall be applied)	Conclusion
§15.203	1. Permanently attached antenna 2. Unique coupling to the intentional radiator 3. Professionally installed radio. The installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	PASS
Note	Option1 is used	

Conducted Emissions In The Frequency Range 150 kHz - 30 MHz

Conducted Emissions In The Frequency Range 150 kHz - 30 MHz

Standard: ANSI C63.10 (2013)
Tested by: HEM
Date: 13 January 2022
Temperature: 23 ± 3 °C
Humidity: 20 - 75 % RH
Measurement uncertainty: ± 2.9 dB Level of confidence 95 % (k = 2)

FCC Rule: 15.207 (a)
RSS-GEN 8.8

Conducted disturbance voltage was measured with an artificial main network from 150 kHz to 30 MHz with 4.5 kHz steps and a resolution bandwidth of 9 kHz. Measurements were carried out with peak and average detectors.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Full Spectrum

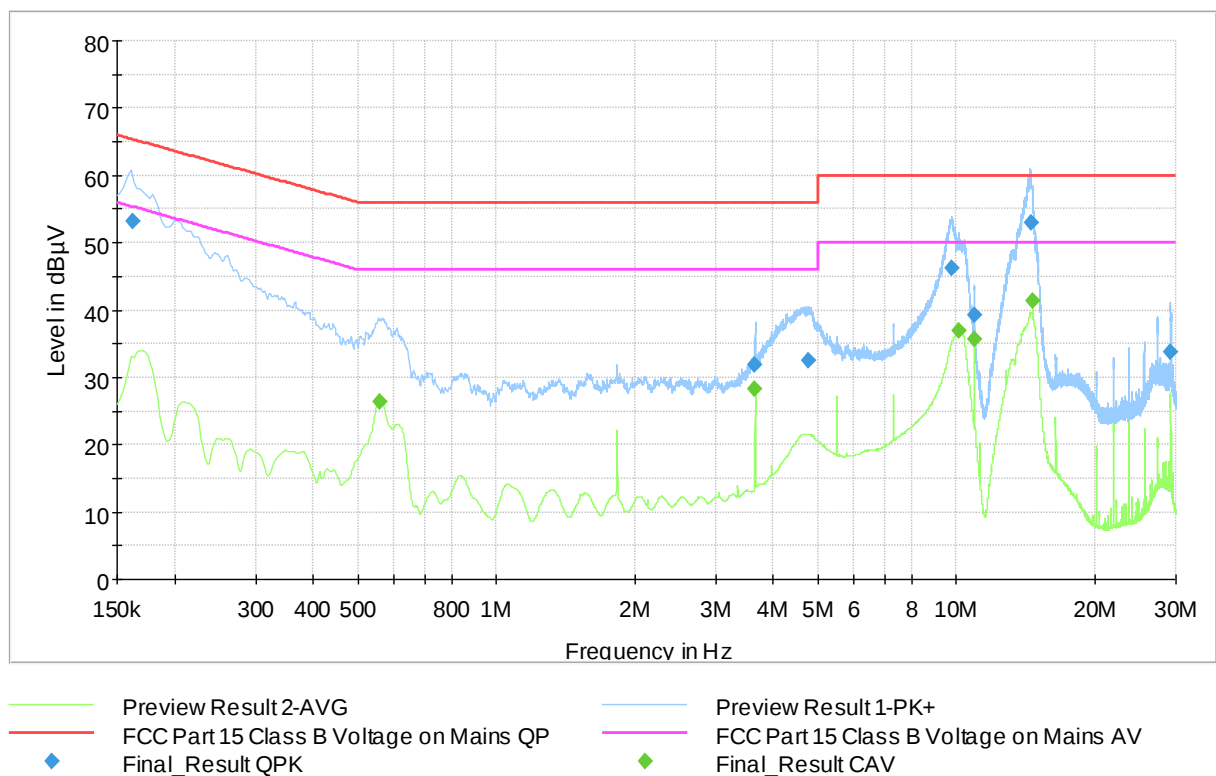


Figure 2: The measured curves with peak- and average detector

Conducted Emissions In The Frequency Range 150 kHz - 30 MHz

Final measurements from the worst frequencies

Table 2: Final results

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Corr. (dB)
0.162000	53.10	---	65.36	12.26	15x1s	9.000	L1	9.7
0.556750	---	26.34	46.00	19.66	15x1s	9.000	N	9.7
3.652250	31.83	---	56.00	24.17	15x1s	9.000	N	9.9
3.652250	---	28.33	46.00	17.67	15x1s	9.000	N	9.9
4.772750	32.61	---	56.00	23.39	15x1s	9.000	N	10.0
9.741250	46.17	---	60.00	13.83	15x1s	9.000	N	10.3
10.151250	---	36.91	50.00	13.09	15x1s	9.000	N	10.3
10.956750	39.32	---	60.00	20.68	15x1s	9.000	L1	10.3
10.960250	---	35.67	50.00	14.33	15x1s	9.000	L1	10.3
14.510750	53.04	---	60.00	6.96	15x1s	9.000	L1	10.4
14.610250	---	41.32	50.00	8.68	15x1s	9.000	L1	10.4
29.214750	33.80	---	60.00	26.20	15x1s	9.000	N	10.9

The correction factor in the final result table contains the sum of the transducers (transient limiter + cables + LISN). The result value is the measured value corrected with the correction factor.

Maximum Peak Conducted Output Power**Maximum Peak Conducted Output Power**

Standard: ANSI C63.10 (2013)
Tested by: HEM
Date: 31 January 2022
Temperature: 23 ± 3 °C
Humidity: 20 - 75 % RH
Measurement uncertainty: ± 2.87 dB Level of confidence 95 % (k = 2)

FCC Rule: 15.247(b)(3)
RSS-247 5.4(d)

For systems using digital modulation in the 2400-2483.5 MHz bands the limit is 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

Measured values are peak values.

Results:**Table 3:** Maximum conducted output power

Channel	U2000-port [dBm]	U2001-port [dBm]	U2000-port [W]	U2001-port [W]	Sum [W]	Limit [W]	Result
Low	-0.23	-0.46	0.000948	0.000899	0.001848	1	PASS
Mid	+0.09	+0.01	0.001021	0.001002	0.002023	1	PASS
High	-0.05	-0.24	0.000989	0.000946	0.001935	1	PASS

Maximum Peak Conducted Output Power

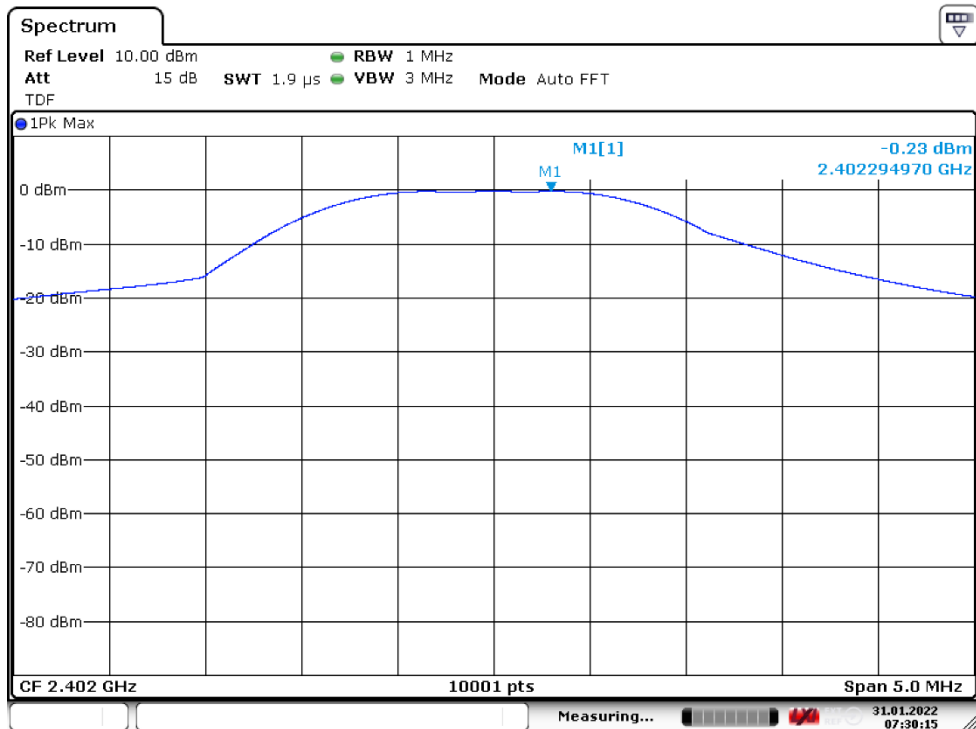


Figure 3: Conducted power, U2000-port, Low channel

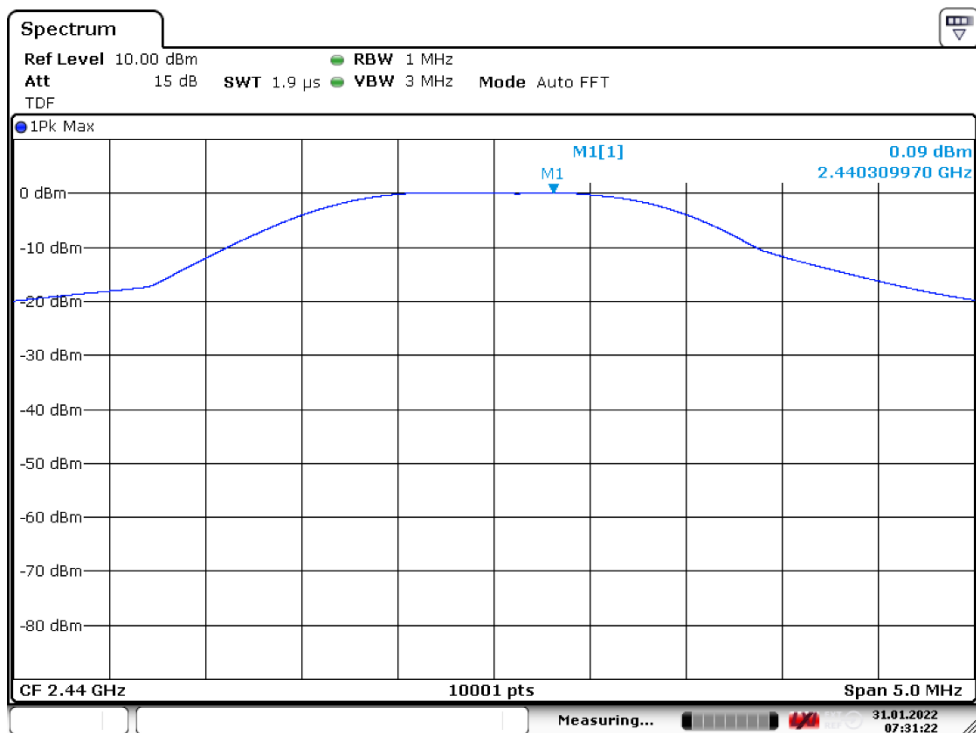


Figure 4: Conducted power, U2000-port, Mid channel

Maximum Peak Conducted Output Power

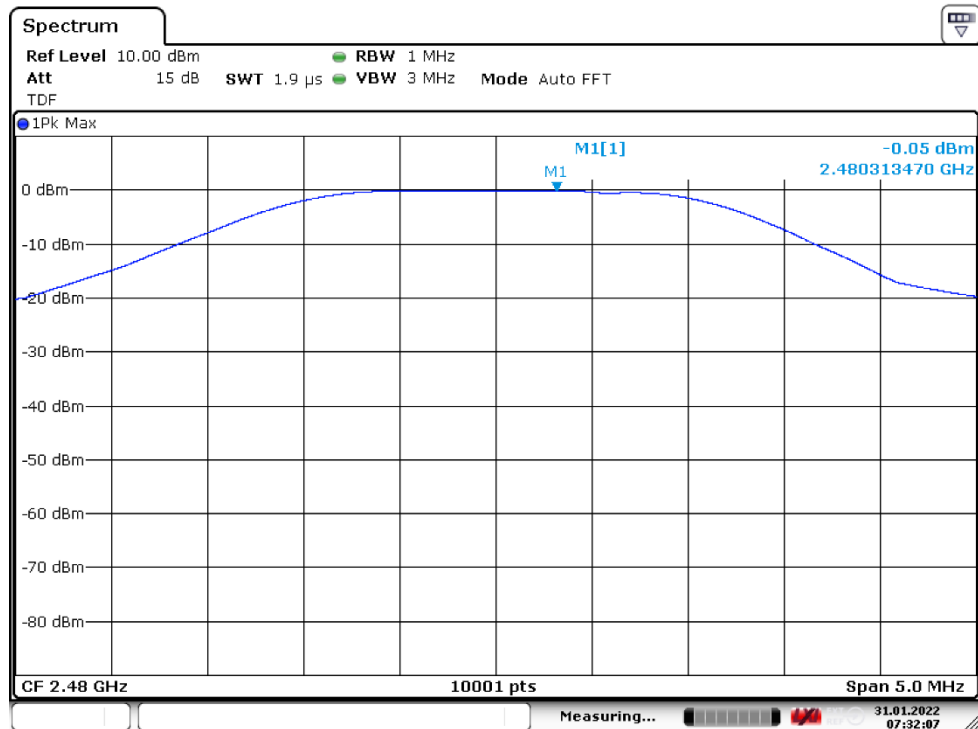


Figure 5: Conducted power, U2000-port, High channel

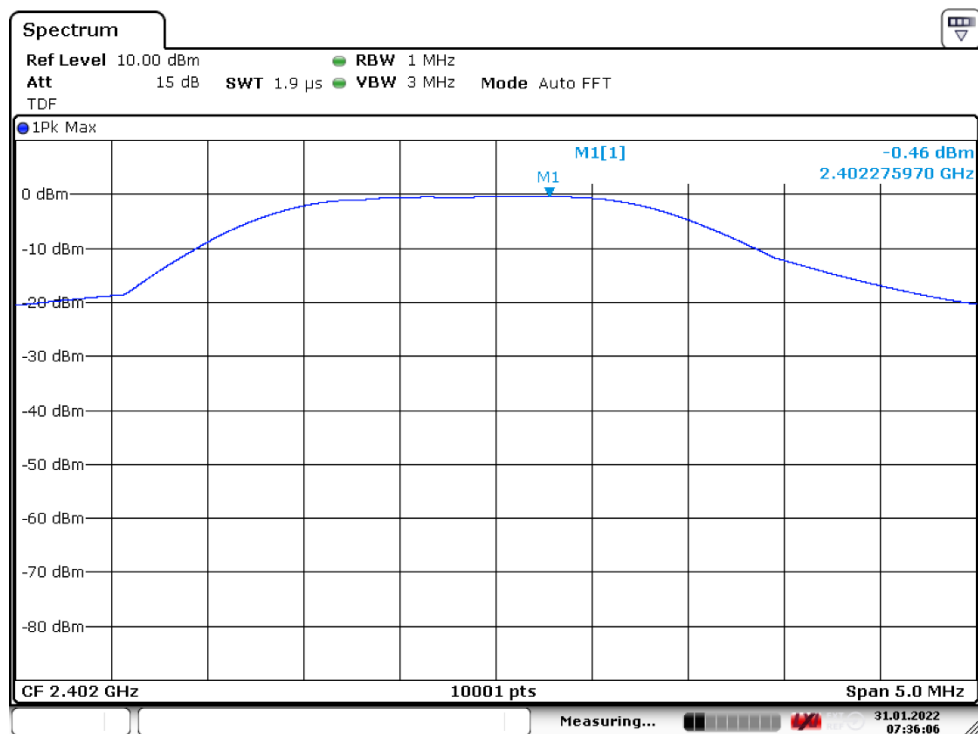


Figure 6: Conducted power, U2001-port, Low channel

Maximum Peak Conducted Output Power

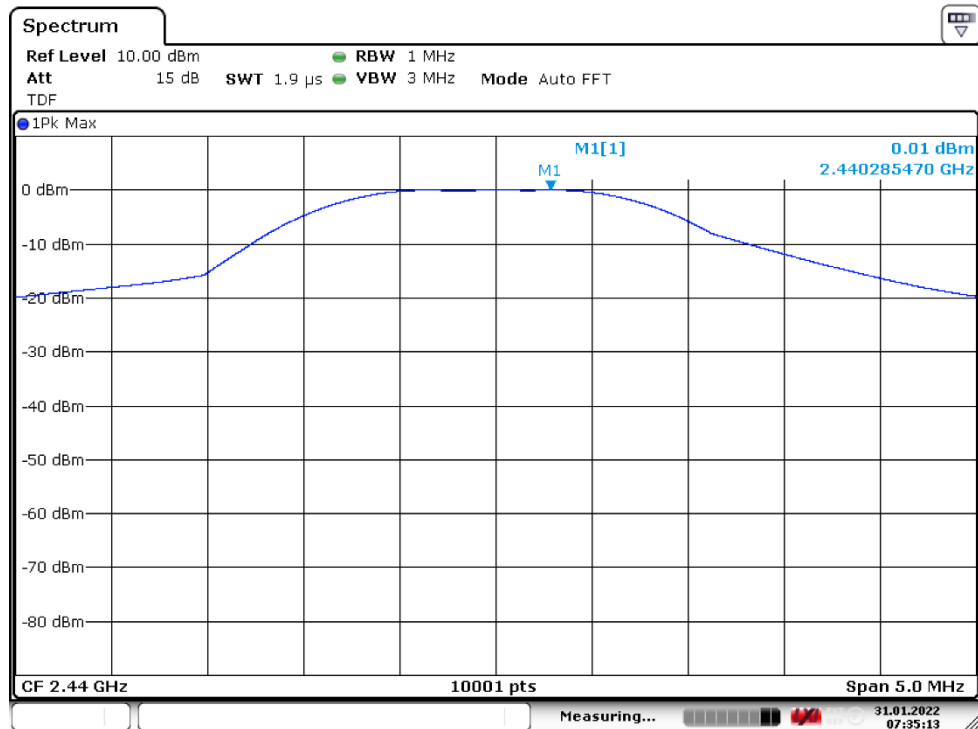


Figure 7: Conducted power, U2001-port, Mid channel

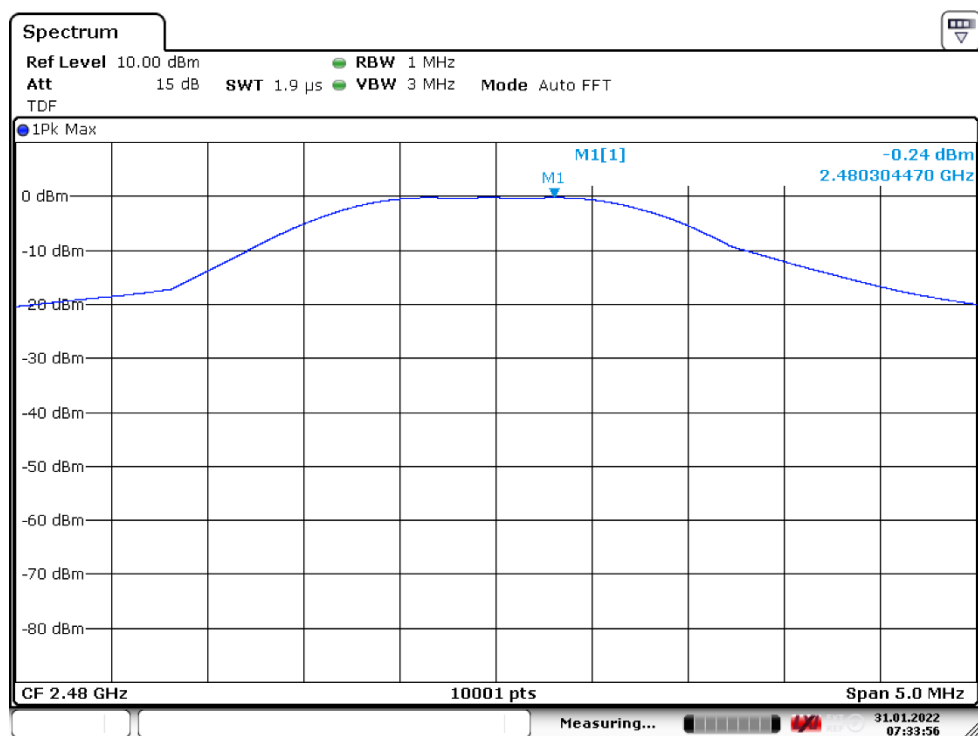


Figure 8: Conducted power, U2001-port, High channel

Transmitter Radiated Spurious Emissions 9 kHz – 26.5 GHz

Transmitter Radiated Spurious Emissions 9 kHz – 26.5 GHz

Standard: ANSI C63.10 (2013)
Tested by: RRE, HEM
Date: 13 January 2022
Temperature: 23 ± 3 °C
Humidity: 20 - 75 % RH
Measurement uncertainty: ± 4.51 dB Level of confidence 95 % (k = 2)

FCC Rule: 15.247(d), 15.209(a)

RSS-247 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

At the request of the customer the emissions below 1000 MHz are additionally compared to the general limits specified in Section 15.209(a), whether or not they fall in the restricted bands.

The correction factor in the final result table contains the sum of the transducers (antenna + amplifier + cables).

Frequency range [MHz]	Limit [$\mu\text{V/m}$]	Limit [$\text{dB}\mu\text{V/m}$]	Detector
0.009-0.490	2400/F(kHz)	48.5-13.8	Quasi-peak
0.490-1.705	24000/F(kHz)	33.8-22.97	Quasi-peak
1.705-30.0	30	29.54	Quasi-peak
30 - 80	100	40.0	Quasi-peak
88 - 216	150	43.5	Quasi-peak
216 - 960	200	46.0	Quasi-peak
960 - 1000	500	53.9	Quasi-peak
Above 1000	500	53.9	Average
Above 1000	5000	73.9	Peak

Transmitter Radiated Spurious Emissions 9 kHz – 26.5 GHz

Results LOW channel

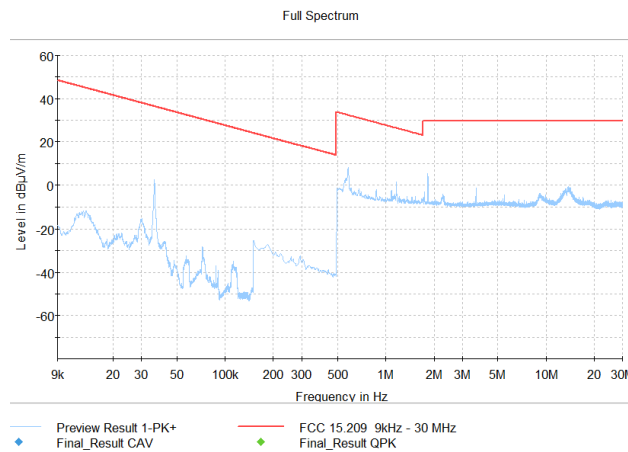


Figure 9: LOW channel (9 kHz – 30 MHz)

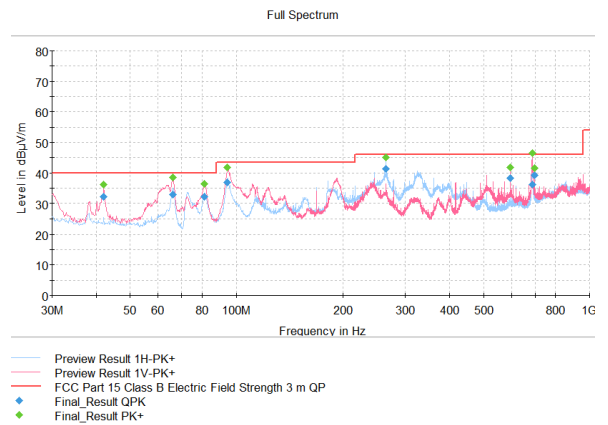


Figure 10: LOW channel (30 MHz – 1000 MHz)

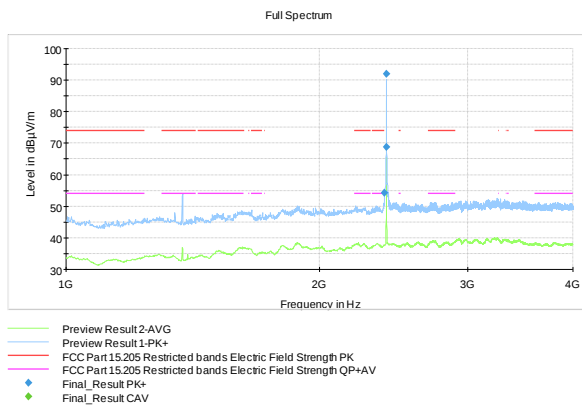


Figure 11: LOW channel (1 GHz – 4 GHz)

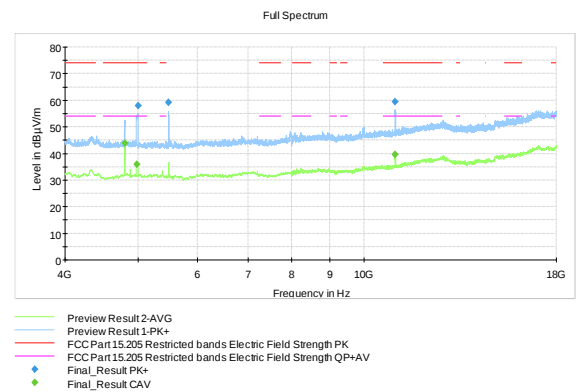


Figure 12: LOW channel (4 GHz – 18 GHz)

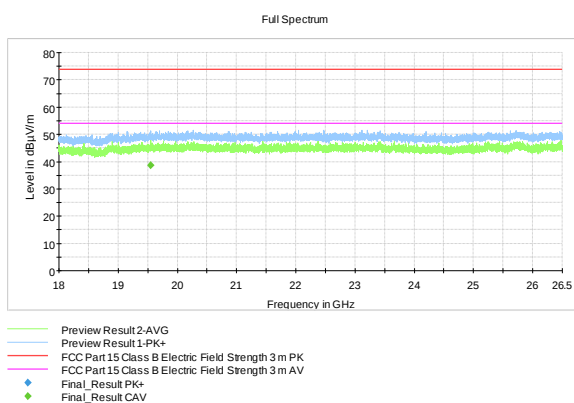


Figure 13: LOW channel (18 GHz – 26.5 GHz)

Transmitter Radiated Spurious Emissions 9 kHz – 26.5 GHz

Table 4: Quasi-peak results LOW channel

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
42.035000	32.20	40.00	7.80	15x1s	120.000	100.0	V	23.0	17.3	-
65.895000	32.85	40.00	7.15	15x1s	120.000	105.0	V	307.0	17.0	-
80.985000	32.23	40.00	7.77	15x1s	120.000	105.0	V	258.0	12.9	-
94.285000	36.76	43.50	6.74	15x1s	120.000	111.0	V	255.0	12.8	-
264.015000	41.34	46.00	4.66	15x1s	120.000	105.0	H	80.0	18.1	-
595.895000	38.17	46.00	7.83	15x1s	120.000	100.0	V	341.0	26.7	-
687.105000	36.03	46.00	9.97	15x1s	120.000	211.0	V	269.0	28.1	-
697.465000	39.09	46.00	6.91	15x1s	120.000	268.0	H	307.0	28.2	-

Table 5: Average results LOW channel

Frequency (MHz)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
4803.925000	43.75	54.00	10.25	15x1s	1000.000	116.0	V	18.0	7.6	-
4981.225000	35.91	54.00	18.09	15x1s	1000.000	168.0	H	200.0	7.3	-
10987.075000	39.59	54.00	14.41	15x1s	1000.000	189.0	V	236.0	15.9	-
19550.050000	38.62	53.90	15.28	15x1s	1000.000	166.0	V	6.0	7.0	-

Table 6: Peak results LOW channel

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
2388.600000	54.21	74.00	19.79	15x1s	1000.000	143.0	H	107.0	13.6	-
2400.000000	68.85	---	---	15x1s	1000.000	134.0	V	34.0	13.9	Band Edge
2402.000000	91.98	---	---	15x1s	1000.000	162.0	V	220.0	14.0	Fundamental
4999.975000	57.88	74.00	16.12	15x1s	1000.000	142.0	V	61.0	7.2	-
5492.775000	59.15	---	---	15x1s	1000.000	188.0	V	206.0	8.3	< -20dBc
10980.175000	59.37	74.00	14.63	15x1s	1000.000	184.0	V	299.0	15.9	-

Transmitter Radiated Spurious Emissions 9 kHz – 26.5 GHz

Results MID channel

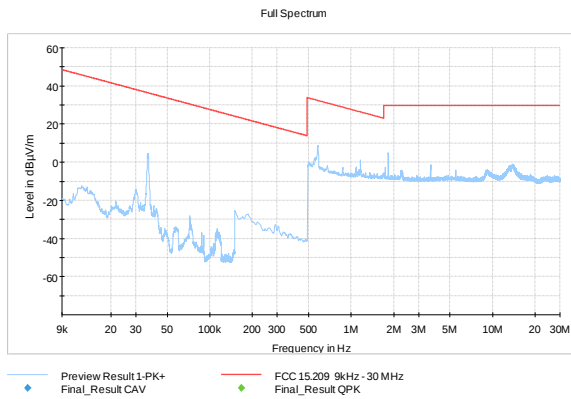


Figure 14: MID channel (9 kHz – 30 MHz)

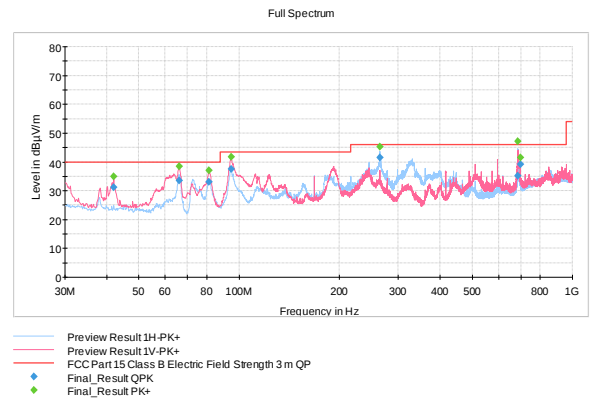


Figure 15: MID channel (30 MHz – 1000 MHz)

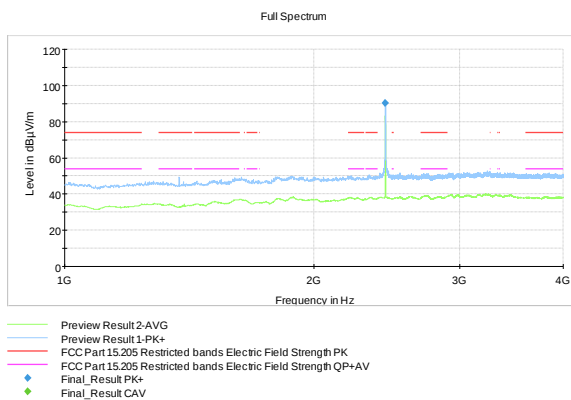


Figure 16: MID channel (1 GHz – 4 GHz)

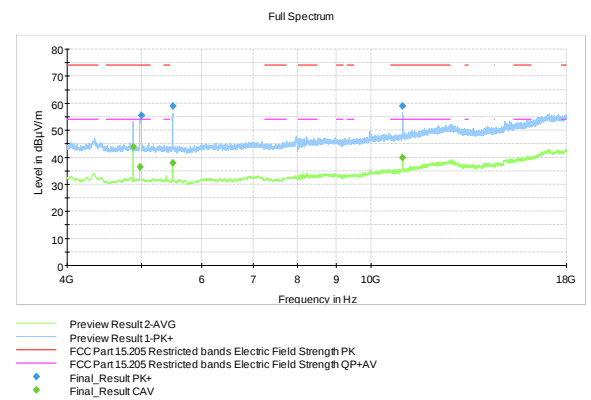


Figure 17: MID channel (4 GHz – 18 GHz)

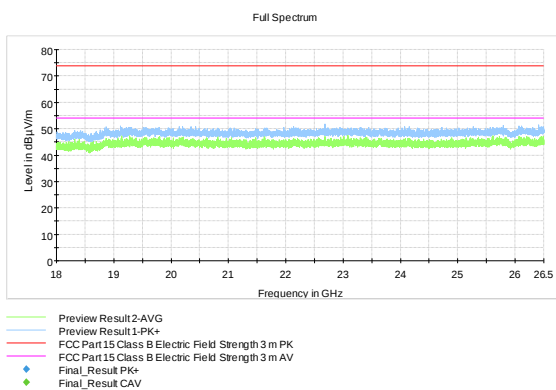


Figure 18: MID channel (18 GHz – 26.5 GHz)

Transmitter Radiated Spurious Emissions 9 kHz – 26.5 GHz

Table 7: Quasi-peak results MID channel

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
42.015000	31.18	40.00	8.82	15x1s	120.000	124.0	V	27.0	17.3	-
66.115000	33.50	40.00	6.50	15x1s	120.000	105.0	V	306.0	17.0	-
81.005000	32.98	40.00	7.02	15x1s	120.000	105.0	V	266.0	12.9	-
94.445000	37.48	43.50	6.02	15x1s	120.000	118.0	V	231.0	12.8	-
264.015000	41.53	46.00	4.47	15x1s	120.000	108.0	H	82.0	18.1	-
686.365000	35.21	46.00	10.79	15x1s	120.000	100.0	H	256.0	28.1	-
697.465000	39.08	46.00	6.92	15x1s	120.000	100.0	V	348.0	28.2	-

Table 8: Average results MID channel

Frequency (MHz)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
4879.925000	43.81	54.00	10.19	15x1s	1000.000	131.0	V	16.0	7.5	-
4981.175000	36.29	54.00	17.71	15x1s	1000.000	152.0	H	201.0	7.3	-
5496.975000	37.81	---	---	15x1s	1000.000	230.0	V	206.0	8.3	-
10987.425000	39.84	54.00	14.16	15x1s	1000.000	188.0	V	237.0	15.9	-

Table 9: Peak results MID channel

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
2440.000000	90.44	---	---	15x1s	1000.000	148.0	V	19.0	13.7	Fundamental
4999.975000	55.55	74.00	18.45	15x1s	1000.000	141.0	V	342.0	7.2	-
5500.875000	58.99	---	---	15x1s	1000.000	230.0	V	208.0	8.4	< -20dBc
10980.175000	59.00	74.00	15.00	15x1s	1000.000	189.0	V	298.0	15.9	-

Transmitter Radiated Spurious Emissions 9 kHz – 26.5 GHz

Results HIGH channel

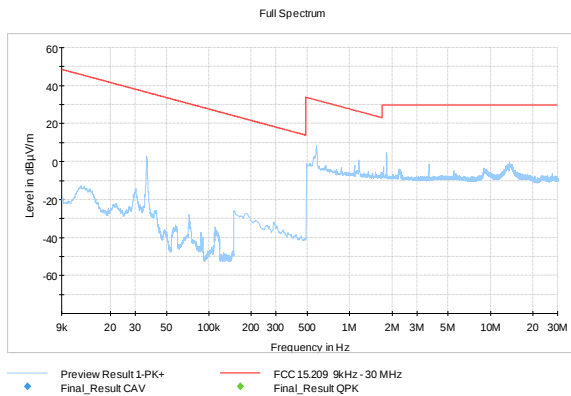


Figure 19: HIGH channel (9 kHz – 30 MHz)

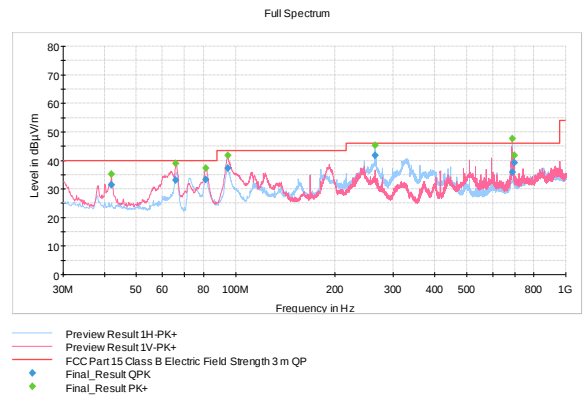


Figure 20: HIGH channel (30 MHz – 1000 MHz)

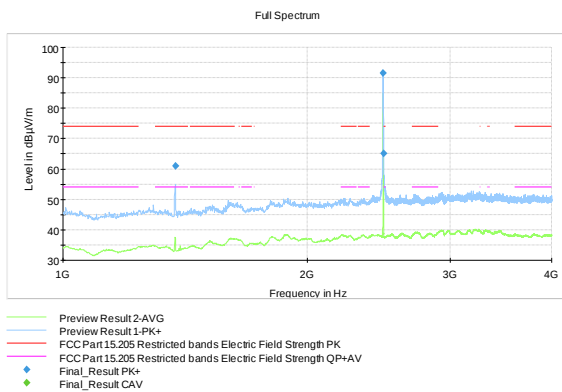


Figure 21: HIGH channel (1 GHz – 4 GHz)

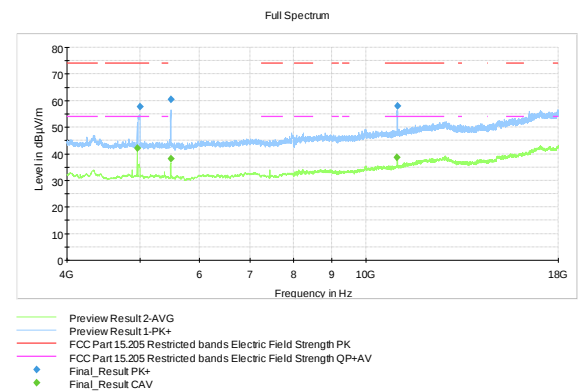


Figure 22: HIGH channel (4 GHz – 18 GHz)

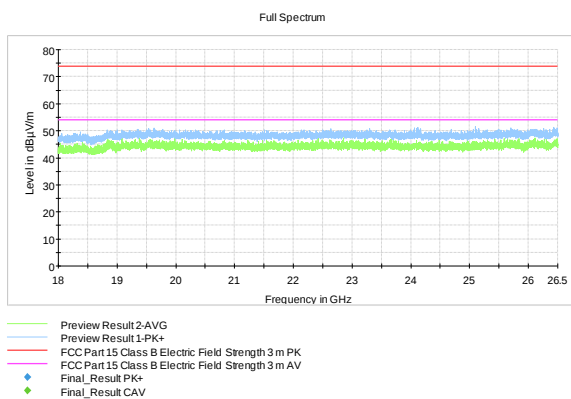


Figure 23: HIGH channel (18 GHz – 26.5 GHz)

Transmitter Radiated Spurious Emissions 9 kHz – 26.5 GHz

Table 10: Quasi-peak results HIGH channel

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
42.015000	31.41	40.00	8.59	15x1s	120.000	105.0	V	26.0	17.3	-
65.825000	32.98	40.00	7.02	15x1s	120.000	100.0	V	326.0	17.0	-
81.125000	33.21	40.00	6.79	15x1s	120.000	100.0	V	253.0	12.9	-
94.635000	37.30	43.50	6.20	15x1s	120.000	120.0	V	246.0	12.9	-
264.015000	41.72	46.00	4.28	15x1s	120.000	100.0	H	86.0	18.1	-
687.525000	35.92	46.00	10.08	15x1s	120.000	100.0	H	257.0	28.1	-
697.465000	39.13	46.00	6.87	15x1s	120.000	169.0	V	349.0	28.2	-

Table 11: Average results HIGH channel

Frequency (MHz)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
4959.925000	42.11	54.00	11.89	15x1s	1000.000	131.0	V	16.0	7.5	-
5496.825000	38.16	---	---	15x1s	1000.000	229.0	V	208.0	8.3	-
10987.825000	38.54	54.00	15.46	15x1s	1000.000	200.0	V	296.0	15.9	-

Table 12: Peak results HIGH channel

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
1375.225000	60.99	74.00	13.01	15x1s	1000.000	243.0	V	260.0	9.5	-
2480.000000	91.56	---	---	15x1s	1000.000	225.0	V	17.0	13.7	Fundamental
2483.500001	65.02	74.00	8.98	15x1s	1000.000	198.0	V	36.0	13.7	-
4999.975000	57.74	74.00	16.26	15x1s	1000.000	142.0	V	61.0	7.2	-
5497.875000	60.35	---	---	15x1s	1000.000	235.0	V	202.0	8.3	< -20dBc
10995.525000	57.88	74.00	16.12	15x1s	1000.000	174.0	V	238.0	15.8	-

TEST EQUIPMENT

Conducted Emissions

Equipment	Manufacturer	Type	Inv or serial	Prev Calib	Next Calib
TEST SOFTWARE	ROHDE & SCHWARZ	EMC-32	-	NCR	NCR
LISN	ROHDE & SCHWARZ	ENV216	inv:9611	2021-02-26	2022-02-26
EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW26	inv:10679	2021-06-21	2022-06-21
TEMPERATURE/ HUMIDITY SENSOR	EDS	OW-ENV-TH, K5 SAC	inv:10517	2021-10-22	2022-10-22
POWER SUPPLY	CALIFORNIA INSTR.	5001 iX Series II	inv:7826	NCR	NCR

Radiated Emissions

Equipment	Manufacturer	Type	Inv or serial	Prev Calib	Next Calib
ANTENNA	A.H. SYSTEMS	SAS-200/518	inv:7873	NCR	NCR
SPECTRUM ANALYZER	AGILENT	E7405A, monitoring	inv:9746	2020-02-17	2022-02-17
POWER SUPPLY	CALIFORNIA INSTR.	5001 iX Series II	inv:7826	NCR	NCR
RF PREAMPLIFIER	CIAO	CA118-3123	inv:10278	2021-10-05	2022-10-05
TEMPERATURE/ HUMIDITY SENSOR	EDS	OW-ENV-TH, K5 SAC	inv:10517	2021-10-22	2022-10-22
ANTENNA	EMCO	3117, emi 1-18GHz	inv:7293	2020-03-11	2022-03-11
ANTENNA	EMCO	3160-09, emi 18-26.5GHz	inv:7294	2021-02-19	2022-02-19
ATTENUATOR	INMET	10 dB, DC-40 GHz	inv:10347	2021-04-20	2023-04-20
FILTER	WAINWRIGHT	HP, WHKX4.0/18G-10SS	inv:10403	2021-01-29	2023-01-29
TURNTABLE	MATURO	DS430 UPGRADED	inv:10182	NCR	NCR
MAST & TURNTABLE CONTROLLER	MATURO	NCD	inv:10183	NCR	NCR
ANTENNA MAST	MATURO	TAM 4.0E	inv:10181	NCR	NCR
ATTENUATOR	PASTERNAK	PE 7004-4 (4dB)	inv:10126	2021-03-26	2022-03-26
TEST SOFTWARE	ROHDE & SCHWARZ	EMC-32	-	NCR	NCR
SPECTRUM ANALYZER	ROHDE & SCHWARZ	FSV40	inv:9093	2021-12-06	2022-06-06
EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW26	inv:10679	2021-06-21	2022-06-21
ANTENNA	SCHWARZBECK	VULB 9168	inv:8911	2020-11-04	2022-11-04

NCR = No calibration required

END OF REPORT