

FCC/ISED TEST REPORT

Prepared for: Inovonics

Address: 11000 Westmoor Circle
Westminster, CO 80021

Product: EN 2242 CXA

Test Report No: R20250912-70-E3B

Approved by: 
Blake Winter
EMC Test Engineer
INARTE EMC-50662-E

DATE: January 12, 2026

Total Pages: 32

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REVISION PAGE

Rev. No.	Date	Description
0	18 November 2025	Issued by BWinter Reviewed by KVepuri Prepared by BWinter
A	19 December 2025	Revision A – BWinter 1. Correct polarization error in Radiated Emissions data.
B	12 January 2026	Revision B – BWinter 1. Update test method statements as appropriate. 2. Add statement about measurements <30MHz.



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1.0 SUMMARY OF TEST RESULTS

The worst-case measurements were reported in this report. Summary of test results presented in this report corresponds to the following section:

FCC Part 15.247

The EUT has been tested according to the following specifications:

- (1) US Code of Federal Regulations, Title 47, Part 15
- (2) ISSED RSS-Gen, Issue 5
- (3) ISSED RSS-247, Issue 4

APPLIED STANDARDS AND REGULATIONS		
Standard Section	Test Type	Result
FCC Part 15.35 RSS Gen, Issue 5, Section 6.10	Duty Cycle	NA
FCC Part 15.247(b)(3) RSS-247 Issue 4 Section 6.3.2	Peak output power	Pass
FCC Part 15.247(a)(2) RSS-247 Issue 4 Section 6.3.1	Bandwidth	Pass
FCC Part 15.209 RSS-Gen Issue 5, Section 7.3	Receiver Radiated Emissions	Pass
FCC Part 15.209 (restricted bands), 15.247 (unrestricted) RSS-247 Issue 4 Section 6.6, RSS-Gen Issue 5, Section 8.9	Transmitter Radiated Emissions	Pass
FCC Part 15.247(e) RSS-247 Issue 4 Section 6.3.1	Power Spectral Density	Pass
FCC Part 15.209, 15.247(d) RSS-247 Issue 4 Section 6.6	Band Edge Measurement	Pass
FCC Part 15.207 RSS-Gen Issue 5, Section 8.8	Conducted Emissions	NA; EUT is never connected to AC Mains

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2.0 EUT DESCRIPTION

2.1 EQUIPMENT UNDER TEST

Summary and Operating Condition:

Manufacturer	Inovonics
EUT	EN 2422 CXA
EUT Received	9 October 2025
EUT Tested	9 October 2025- 18 December 2025
Serial No.	NCEE 200275 (conducted) NCEE 200278 (radiated)
Operating Band	902 - 928 MHz
Device Type	DTS
Power Supply	Internal disposable battery; does not connect to AC Mains

NOTE: For more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.2 DESCRIPTION OF TEST MODES

The following channels were tested:

Channel	Frequency
Low	902.7MHz
Mid	915.7 MHz
High	927.3 MHz

These are the only representative channels tested in the frequency range according to FCC Part 15.31. See the operational description for a list of all channel frequencies and designations.

2.3 DESCRIPTION OF SUPPORT UNITS

None.

3.0 LABORATORY AND GENERAL TEST DESCRIPTION

3.1 LABORATORY DESCRIPTION

All testing was performed at the following Facility:

The Nebraska Center for Excellence in Electronics (NCEE Labs)
4740 Discovery Drive
Lincoln, NE 68521

A2LA Certificate Number: 1953.01
FCC Accredited Test Site Designation No: US1060
Industry Canada Test Site Registration No: 4294A-1
NCC CAB Identification No: US0177

Environmental conditions varied slightly throughout the tests.



3.2 TEST PERSONNEL

No.	PERSONNEL	TITLE	ROLE
1	Karthik Vepuri	Test Engineer	Review
2	Blake Winter	Test Engineer	Testing and Report

Notes:

All personnel are permanent staff members of NCEE Labs. No testing or review was sub-contracted or performed by sub-contracted personnel.



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3.3 TEST EQUIPMENT

DESCRIPTION AND MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CALIBRATION DATE	CALIBRATION DUE DATE
Keysight MXE Signal Analyzer (26.5GHz)	N9010A	MY56070862	July 14, 2025	July 14, 2027
Keysight MXE Signal Analyzer (26.5GHz)	N9038A	MY56400083	July 15, 2025	July 15, 2027
SunAR RF Motion	JB1	A082918-1	July 22, 2025	July 22, 2027
ETS EMCO Red Horn Antenna	3117	0029616	May 16, 2024	May 16, 2026
ETS EMCO Amplifier*	3115-PA	00218576	July 28, 2025	July 28, 2027
R&S High Pass Filter*	6HC330	200332488	July 18, 2025	July 18, 2027
ETS – Lindgren- VSWR on 10m Chamber*	10m Semi-anechoic chamber- VSWR	4740 Discovery Drive	July 3, 2025	July 3, 2027
NCEE Labs-NSA on 10m Chamber*	10m Semi-anechoic chamber-NSA	NCEE-001	August 29, 2025	August 29, 2027
TDK Emissions Lab Software	V11.25	700307	NA	NA
RF Cable (preamplifier to antenna)*	MFR-57500	90-195-040	July 18, 2025	July 18, 2027
RF Cable (antenna to 10m chamber bulkhead)*	FSCM 64639	01E3872	July 18, 2025	July 18, 2027
RF Cable (10m chamber bulkhead to control room bulkhead)*	FSCM 64639	01E3864	July 18, 2025	July 18, 2027
RF Cable (control room bulkhead to test receiver)*	FSCM 64639	01F1206	July 18, 2025	July 18, 2027
N connector bulkhead (10m chamber)*	PE9128	NCEEBH1	July 18, 2025	July 18, 2027
N connector bulkhead (control room)*	PE9128	NCEEBH2	July 18, 2025	July 18, 2027

*Internal Characterization

Notes:

All equipment is owned by NCEE Labs and stored permanently at NCEE Labs facilities.

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3.4 GENERAL TEST PROCEDURE AND SETUP FOR RADIO MEASUREMENTS

Measurement type presented in this report (Please see the checked box below):

Conducted ☒

The conducted measurements were performed by connecting the output of the transmitter directly into a spectrum analyzer using an impedance matched cable and connector soldered to the EUT in place of the antenna. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

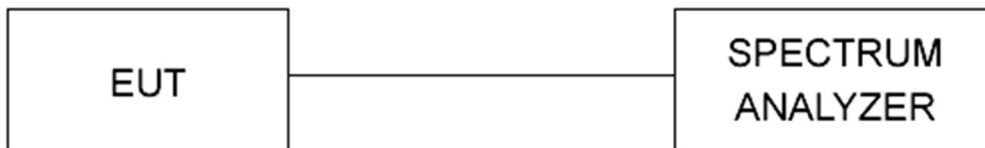


Figure 1 - Bandwidth Measurements Test Setup

Radiated ☒

All the radiated measurements were taken at a distance of 3m from the EUT. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

4.0 RESULTS

DTS Radio Measurements						
CHANNEL	Occupied Bandwidth (MHz)	6 dB Bandwidth (kHz)	Conducted Peak OUTPUT Power (dBm)	Peak Power (mW)	PSD EIRP (dBm)	RESULT
Low	1.100	787.6	13.54	22.59	-2.56	PASS
Mid	1.097	768.4	13.20	20.89	-2.83	PASS
High	1.095	770.1	12.78	18.97	-3.23	PASS
Occupied Bandwidth = N/A; 6dB Min Bandwidth Limit = 500 kHz				Output Power Limit = 30 dBm; PSD Limit = 8 dBm		

Unrestricted Band-Edge						
CHANNEL	Band edge /Measurement Frequency (MHz)	Relative Highest out of band level (dB)	Relative Fundamental (dB)	Delta (dB)	Min Delta (dB)	Result
Low	902.0	9.38	-19.65	29.03	20.00	PASS
High	928.0	8.20	-19.09	27.29	20.00	PASS

Radiated Peak Restricted Band-Edge						
CHANNEL	Band edge /Measurement Frequency (MHz)	Highest out of band level (dBμV /m @ 3m)	Measurement Type	Limit (dBμV/m @ 3m)	Margin	Result
Low	610-618	30.83	Peak	46.02	15.19	PASS
High	960-1000	37.79	Peak	53.98	16.19	PASS

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4.1 OUTPUT POWER

Test Method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024, Section 11.9.1.1.

Limits of power measurements:

For FCC Part 15.247 Device:

The maximum allowed output power is 30 dBm.

Test procedures:

Details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

1. All the output power plots can be found in Appendix C.
2. All the measurements were found to be compliant.
3. The measurements are listed in the tables in section 4.0.



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4.2 BANDWIDTH

Test Method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024, sections 11.8.1.

Limits of bandwidth measurements:

For FCC Part 15.247 Device:

The 99% occupied bandwidth is for informational purposes only. The 6dB bandwidth of the signal must be greater than 500 kHz.

Test procedures:

Details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Test setup details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

PASS

Comments:

1. All the bandwidth plots can be found in Appendix C.
2. All the measurements were found to be compliant.
3. The measurements are listed in the tables in section 4.0.



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4.3 DUTY CYCLE

NA



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4.4 RADIATED EMISSIONS

Test Method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024, Section 6.5, 6.6

Limits for radiated emissions measurements:

Emissions radiated outside of the specified bands shall be applied to the limits in 15.209 as followed:

FREQUENCIES (MHz)	FIELD STRENGTH ($\mu\text{V/m}$)	MEASUREMENT DISTANCE (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	3
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level ($\text{dB}\mu\text{V/m}$) = $20 * \log * \text{Emission level } (\mu\text{V/m})$.
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits by more than 20dB under any condition of modulation.
4. The EUT was tested for spurious emissions while running off of battery power.
5. Measurements below 30MHz did not yield any reportable results.



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Test procedures:

- a. The EUT was placed on the top of a rotating table above the ground plane in a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The table was 0.8m high for measurements from 30MHz-1Ghz and 1.5m for measurements from 1GHz and higher.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna was a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are used to make the measurement.
- d. For each suspected emission, the EUT was arranged to maximize its emissions and then the antenna height was varied from 1 meter to 4 meters and the rotating table was turned from 0 degrees to 360 degrees to find the maximum emission reading.
- e. The test-receiver system was set to use a peak detector with a specified resolution bandwidth. For spectrum analyzer measurements, the composite maximum of several analyzer sweeps was used for final measurements.
- f. If the emission level of the EUT in peak mode was 6dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise, the emissions that did not have 6 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The EUT was maximized in all 3 orthogonal positions. The results are presented for the axis that had the highest emissions.

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Test setup:

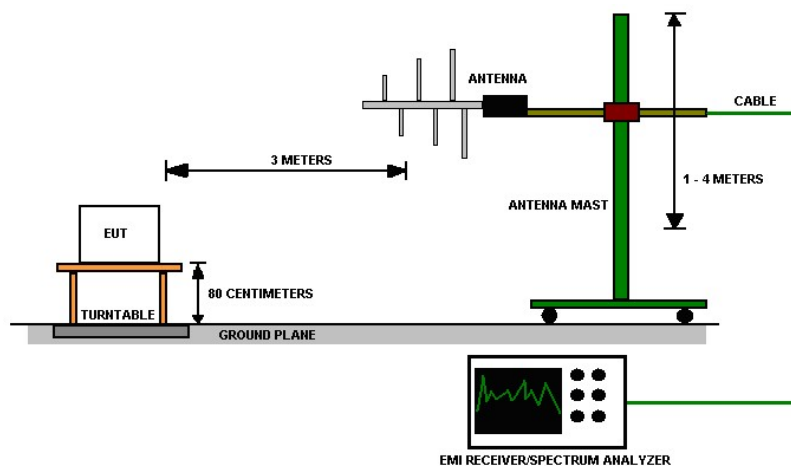


Figure 2 - Radiated Emissions Test Setup, 30MHz – 1GHz

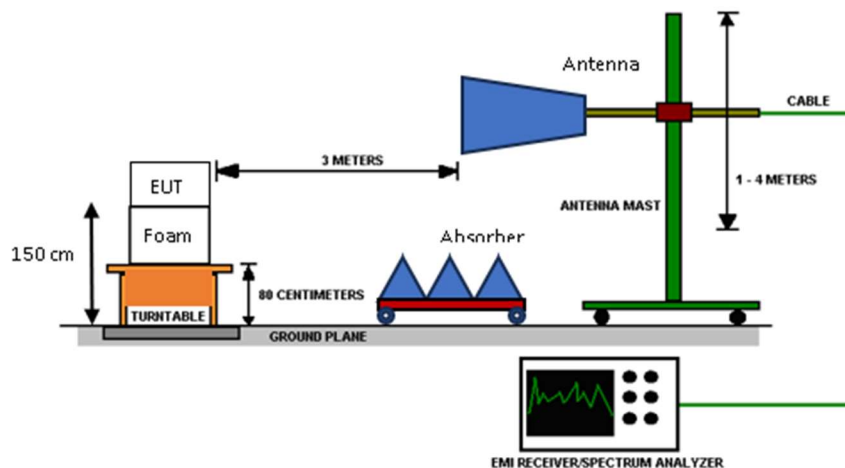


Figure 3 - Radiated Emissions Test Setup, 1GHz – 18GHz

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequencies below 1GHz.
2. The resolution bandwidth was 1 MHz for all measurements and at frequencies above 1GHz, A peak and RMS detector was used for all measurements above 1GHz. Measurements were made with an EMI Receiver.

Deviations from test standard:

No deviation.

EUT operating conditions

Details can be found in section 2.1 of this report.

Test results:

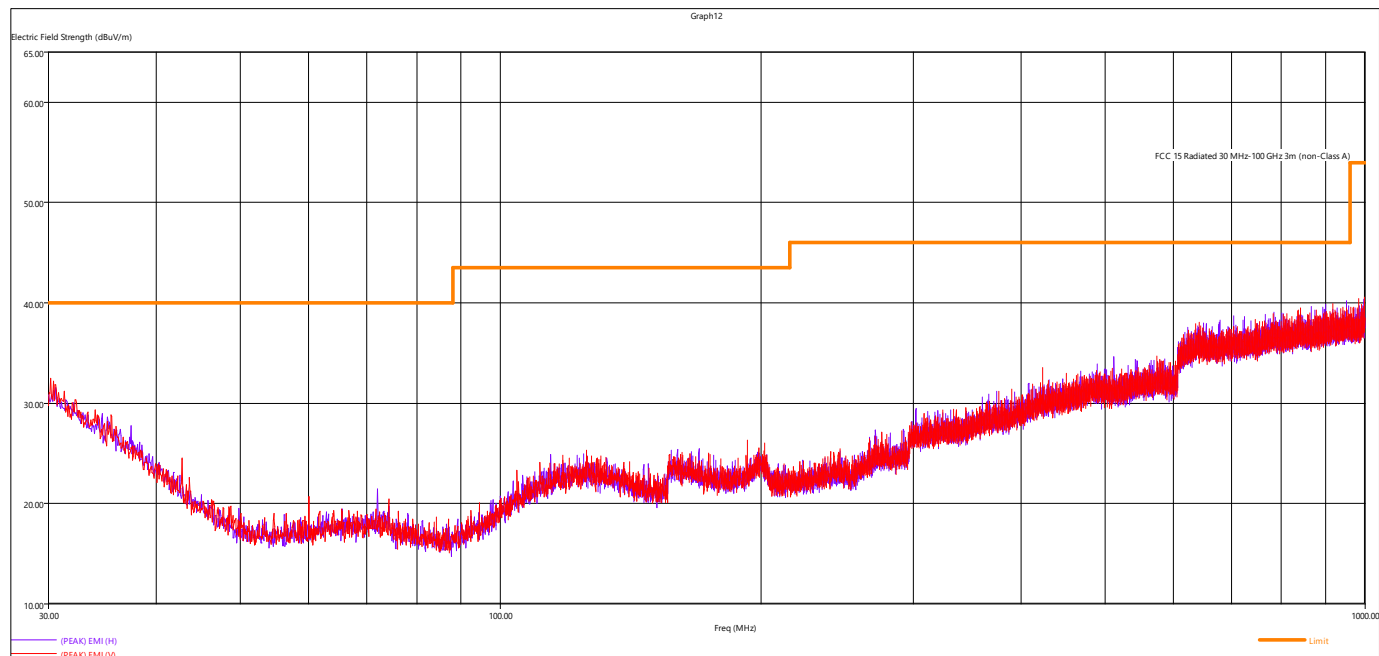


Figure 4 - Radiated Emissions Plot, Receive*

*No signals were within 6dB of the limit, and no measurements were tabulated

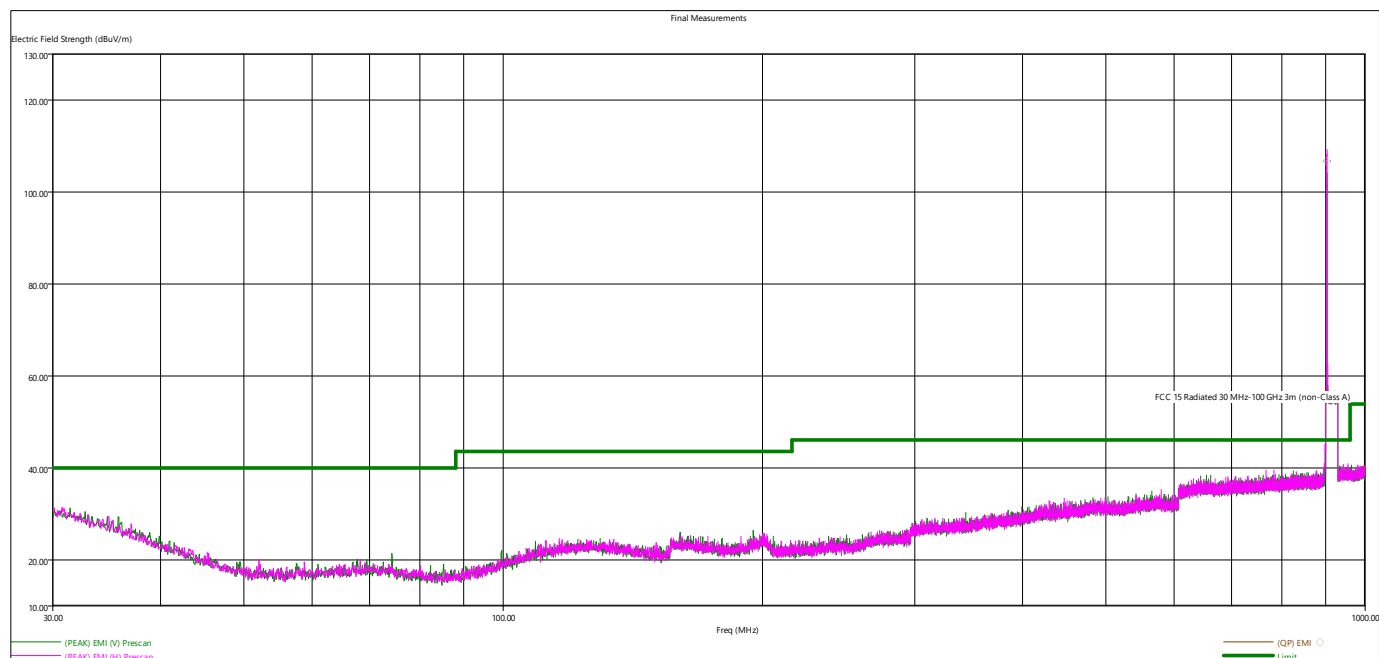


Figure 5 - Radiated Emissions Plot, Low Channel, 30M-1GHz

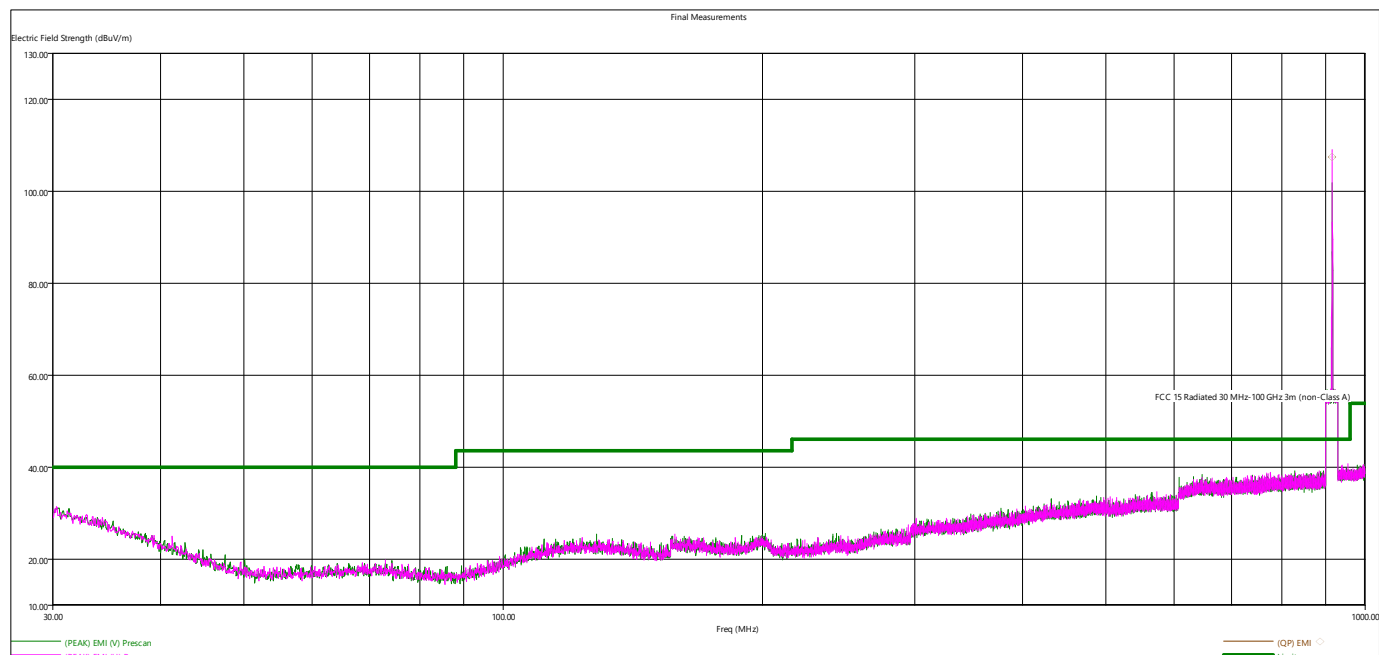


Figure 6 - Radiated Emissions Plot, Mid Channel, 30M-1GHz

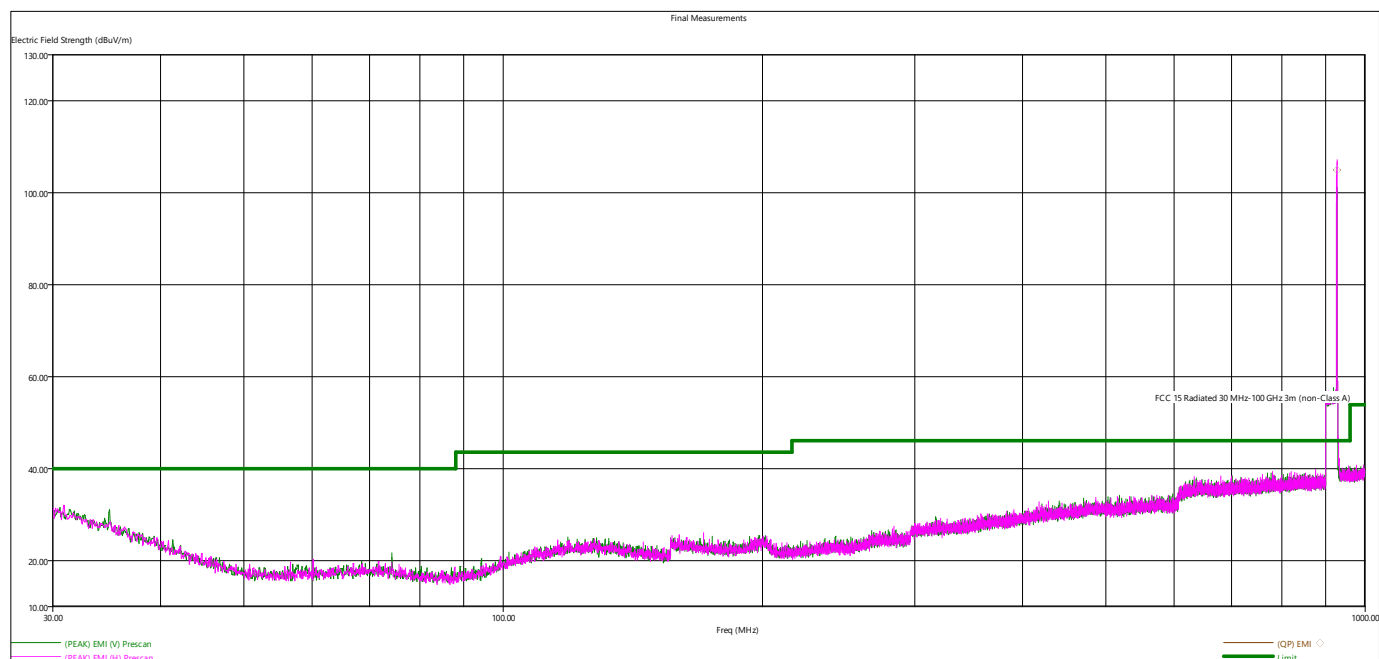


Figure 7 - Radiated Emissions Plot, High Channel, 30M-1GHz

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value - Emission level



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Quasi-Peak Measurements, 30MHz - 1GHz, DTS							
Frequency	QP Level	Limit	Margin	Height	Angle	Pol	Channel
MHz	dBµV/m	dBµV/m	dB	cm.	deg.		
902.706480	106.88	46.02	-60.86	108.29	7.00	H	Low
915.790320	107.42	46.02	-61.40	106.62	5.75	H	Mid
927.504240	105.03	46.02	-59.01	105.13	360.00	H	High

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Peak Measurements, 1 - 10GHz, DTS							
Frequency	Level	Limit	Margin	Height	Angle	Pol	Channel
MHz	dBμV/m	dBμV/m	dB	cm.	deg.		
1207.860000	39.69	73.98	34.29	161.73	301.50	V	RX
1805.81	48.16	NA	NA	428.44	142.50	H	Low
2707.69	45.78	73.98	28.20	402.56	190.50	V	Low
4514.97	51.02	73.98	22.96	258.38	113.75	H	Low
5414.89	47.31	73.98	26.67	323.88	371.50	V	Low
6317.39	55.44	NA	NA	466.38	144.75	V	Low
2746.35	45.67	73.98	28.31	175.40	240.50	V	Mid
4578.05	52.31	73.98	21.67	403.88	121.75	H	Mid
6408.44	55.82	NA	NA	374.44	137.50	V	Mid
2780.98	45.33	73.98	28.65	200.11	255.50	V	High
4635.11	54.06	73.98	19.92	223.16	113.25	H	High
6492.71	53.25	NA	NA	129.55	335.00	V	High

The worst case is shown in the plot and table above.
All other measurements were found to be at least 6 dB Below the limit.

Average Measurements, 1 - 10GHz, DTS							
Frequency	Level	Limit	Margin	Height	Angle	Pol	Ch.
MHz	dBμV/m	dBμV/m	dB	cm.	deg.		
1207.860000	26.29	53.98	27.69	161.73	301.50	V	RX
1805.81	41.22	NA	NA	428.44	142.50	H	Low
2707.69	36.33	53.98	17.65	402.56	190.50	V	Low
4514.97	40.21	53.98	13.77	258.38	113.75	H	Low
5414.89	36.59	53.98	17.39	323.88	371.50	V	Low
6317.39	46.41	NA	NA	466.38	144.75	V	Low
2746.35	35.51	53.98	18.47	175.40	240.50	V	Mid
4578.05	42.49	53.98	11.49	403.88	121.75	H	Mid
6408.44	47.05	NA	NA	374.44	137.50	V	Mid
2780.98	34.83	NA	19.15	200.11	255.50	V	High
4635.11	45.02	53.98	8.96	223.16	113.25	H	High
6492.71	43.65	NA	NA	129.55	335.00	V	High

The worst case is shown in the table above.
All other measurements were found to be at least 6 dB Below the limit.

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4.5 BAND EDGES

Test Method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024, sections 11.11.2, 11.11.3 and 6.10.5.2.

Limits of band-edge measurements:

For FCC Part 15.247 Device:

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, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

Test procedures:

The highest emissions level beyond the band-edge was measured and recorded. All band edge measurements were evaluated to the general limits in Part 15.209. More details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Test setup details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.



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Test results:

Pass

Comments:

1. All the band edge plots can be found in Appendix C.
2. If the device falls under FCC Part 15.247 (Details can be found in summary of test results), compliance is shown in the unrestricted band edges by showing minimum delta of 20 dB between peak and the band edge.
3. The restricted band edge compliance is shown by comparing it to the general limit defined in Part 15.209. The limit shown in the graph accounts for the antenna gain of the device.



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4.6 POWER SPECTRAL DENSITY

Test Method: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024, section 11.10.2.

Limits of power measurements:

For FCC Part 15.247 Device:

The maximum PSD allowed is 8 dBm.

Test procedures:

Details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

1. All the Power Spectral Density (PSD) plots can be found in Appendix C.
2. All the measurements were found to be compliant.
3. The measurements are listed in the tables in section 4.0.

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ANNEX A: MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels apply to tests performed in this test report:

Test	Frequency Range	NCEE Labs Uncertainty Value (dB)	Maximum Uncertainty Values per CISPR 16-4-2:2011/A1:2018
Radiated Emissions, 3m	30MHz - 1GHz	4.50	5.3
Radiated Emissions, 3m	1GHz – 6GHz	4.49	5.2
Radiated Emissions, 3m	6GHz – 18GHz	4.22	5.5

Expanded uncertainty values are calculated to a confidence level of 95%.

NCEE Labs meets the maximum uncertainty requirements per CISPR 16-4-2:2011/A1:2018, and therefore does not require a minimum passing margin to state that an EUT is less than the field strength limits of the applicable CISPR, IEC or EN limit per CISPR 16-4-2:2011/A1:2018, Section 4.1.

NCEE Labs employs tilting when testing at 3m test distance. The maximum uncertainty associated with this method is used.

Maximum uncertainty values show the worst-case of all test distances used.



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ANNEX B: SAMPLE FIELD STRENGTH CALCULATION

Radiated Emissions

The field strength is calculated in decibels (dB) by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = R + AF - (-CF + AG)$$

where FS = Field Strength

R = Receiver Amplitude Receiver reading in dB μ V

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Preamplifier Amplifier Gain

Assume a receiver reading of 55.00 dB μ V is obtained. The Antenna Factor of 12.00 and a Cable Factor of 1.10 is added. The Amplifier Gain of 20 dB is subtracted, giving a field strength of 48.10 dB μ V/m.

$$FS = 55.00 + 12.00 - (-1.10 + 20.00) = 48.1 \text{ dB}\mu\text{V/m}$$

The 48.1 dB μ V/m value can be mathematically converted to its corresponding level in μ V/m.

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(48.1 \text{ dB}\mu\text{V/m})/20] = 254.1 \mu\text{V/m}$$

Conducted Emissions

Receiver readings are compared directly to the conducted emissions limits in decibels (dB) by adding the cable loss and LISN insertion loss to the receiver reading. The basic equations with a sample calculation is as follows;

$$FS = R + IL - (-CF)$$

where V = Conducted Emissions Voltage Measurement

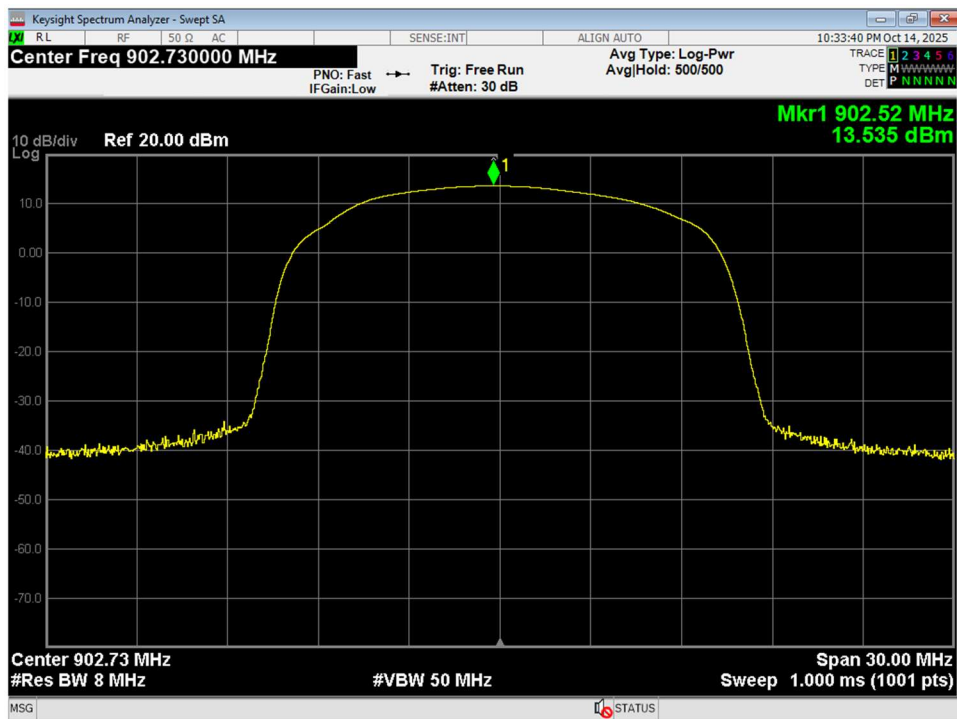
R = Receiver reading in dB μ V

IL = LISN Insertion Loss

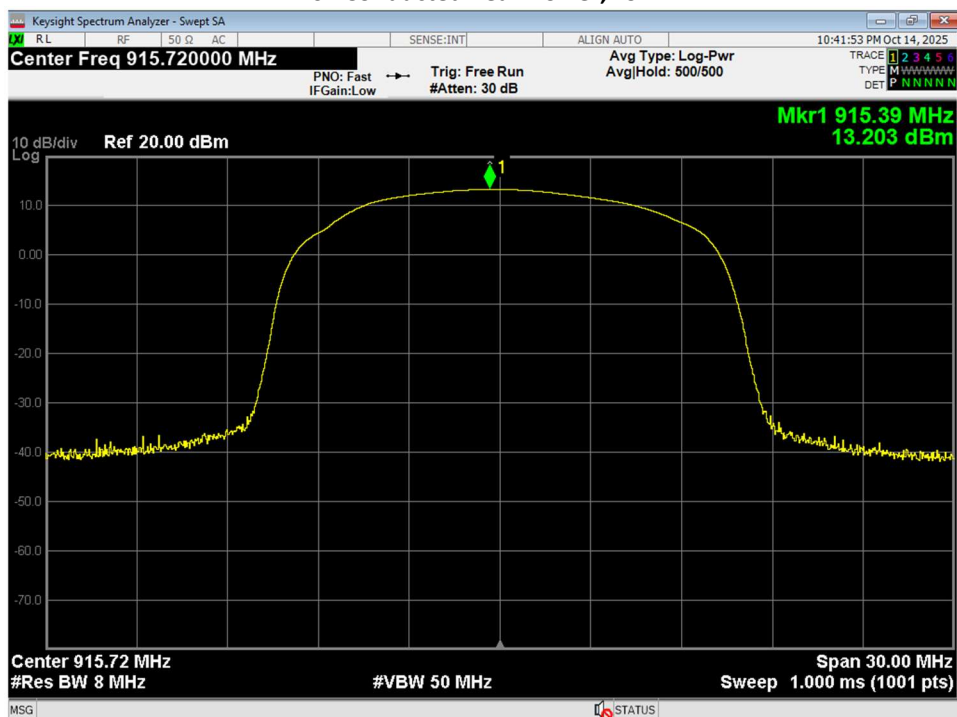
CF = Cable Attenuation Factor

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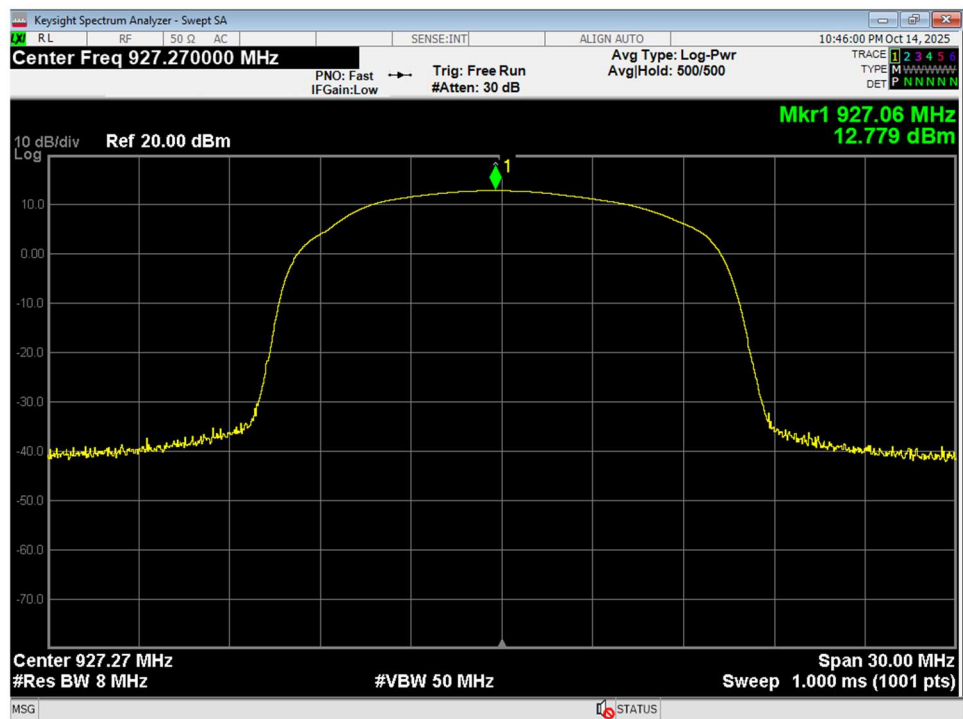
APPENDIX C – GRAPHS AND TABLES



01 Conducted Peak Power, Low



02 Conducted Peak Power, Mid

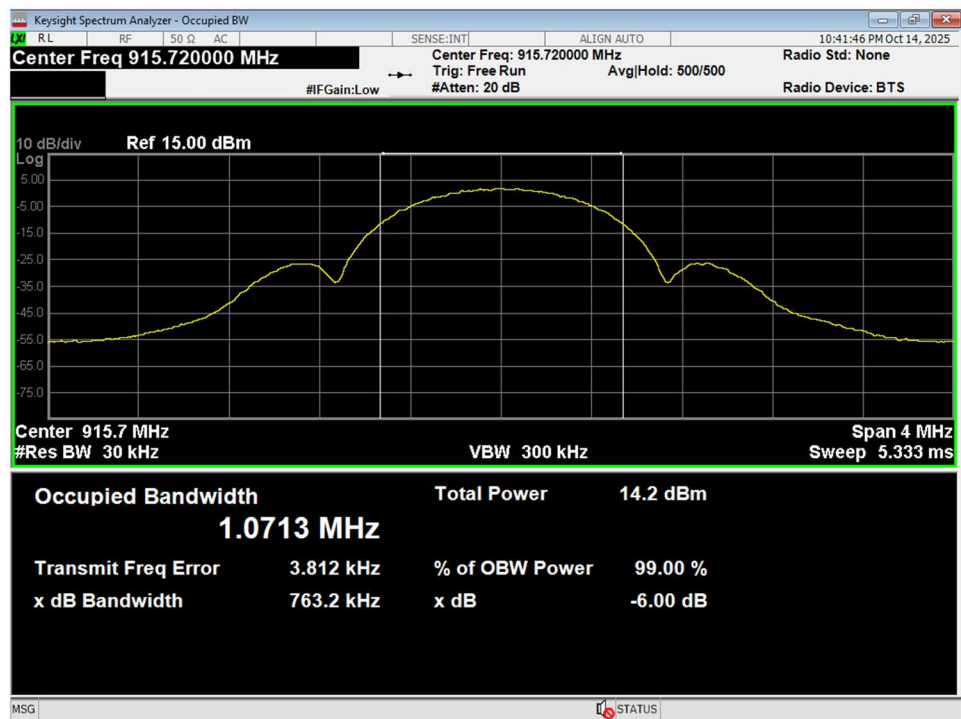


03 Conducted Peak Power, High

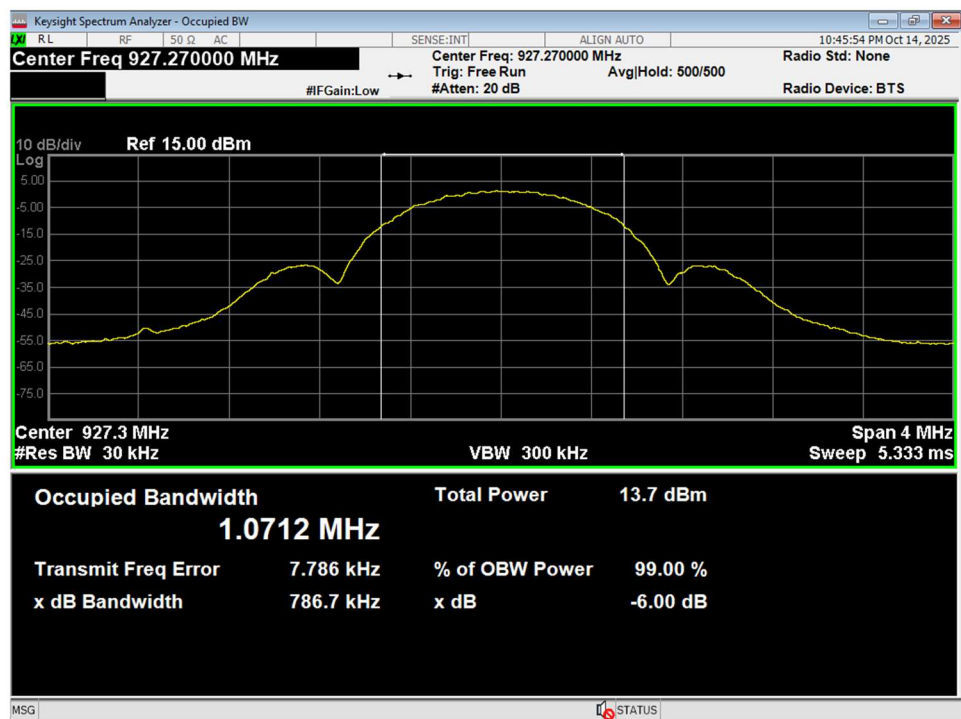


04 6dB Bandwidth, Low

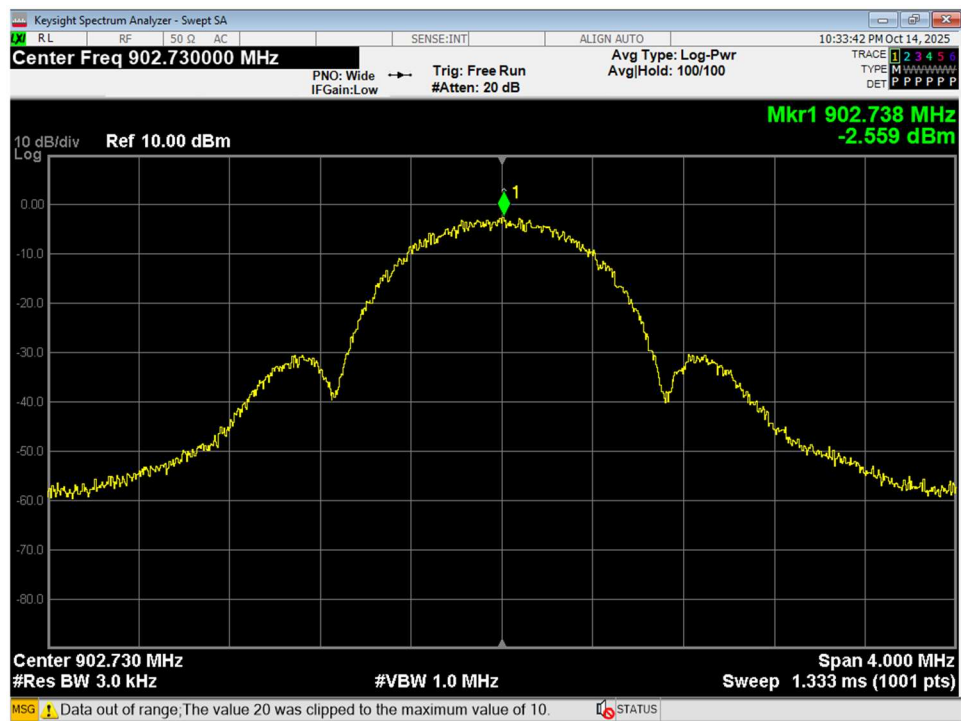
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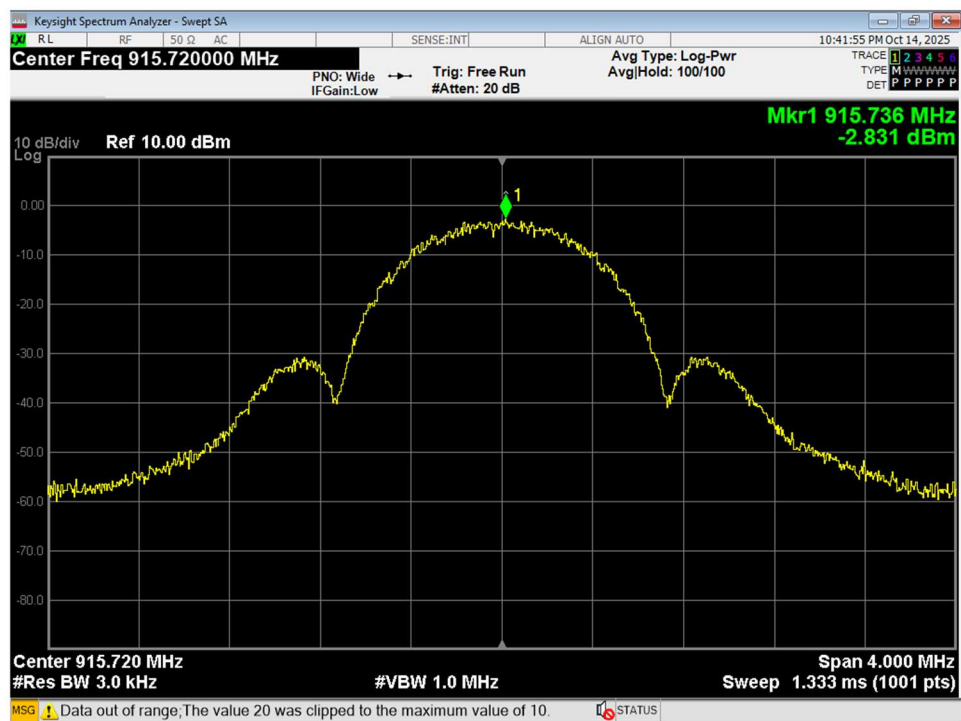
05 6dB Bandwidth, Mid



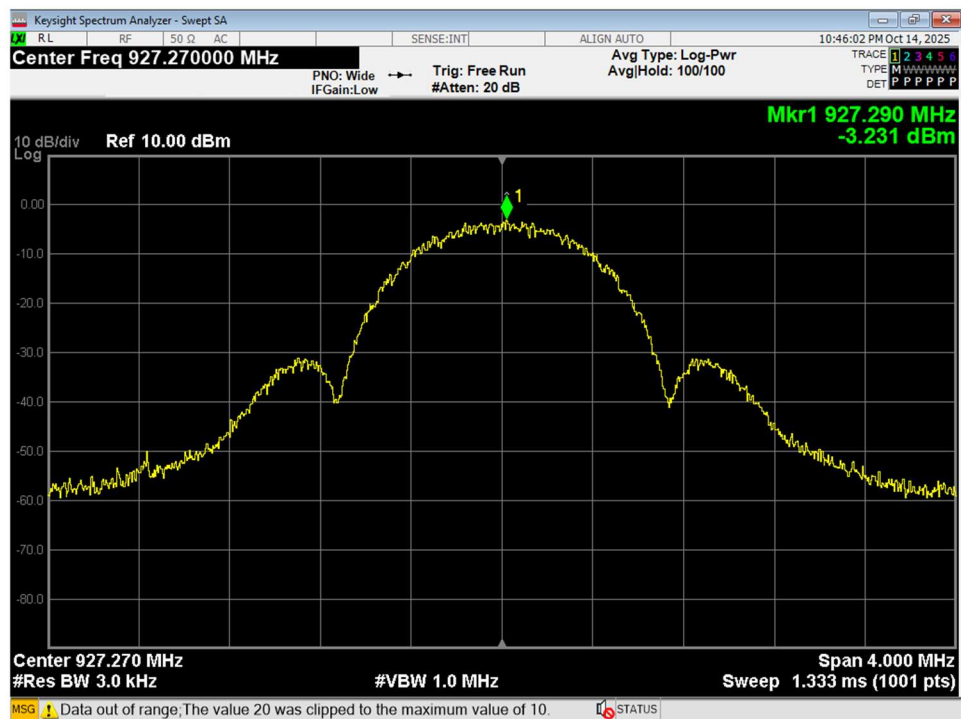
06 6dB Bandwidth, High



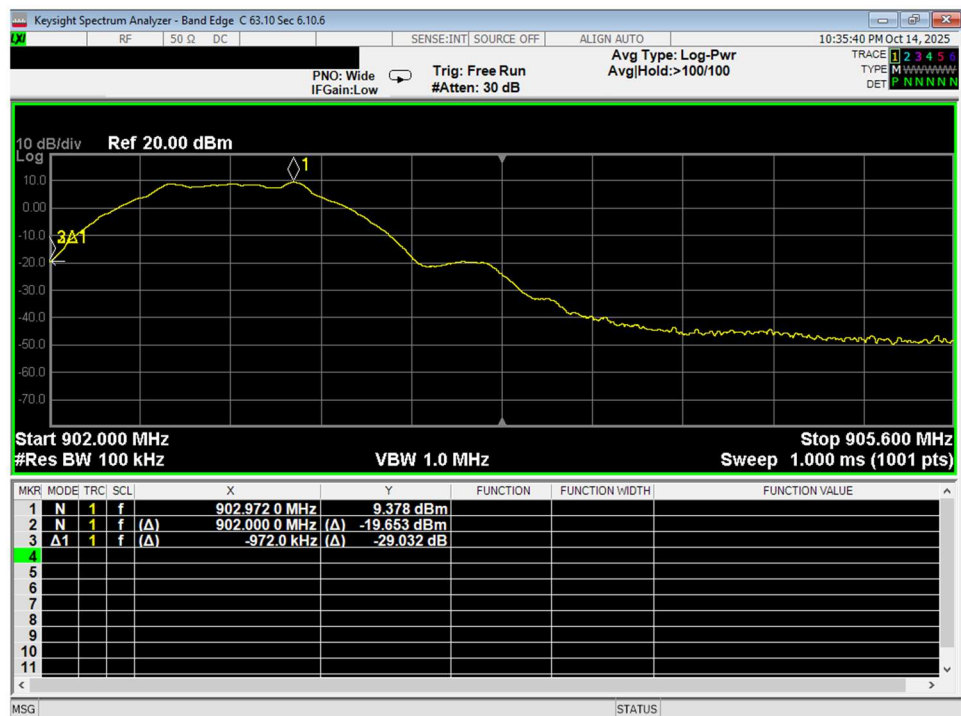
07 PSD, Low



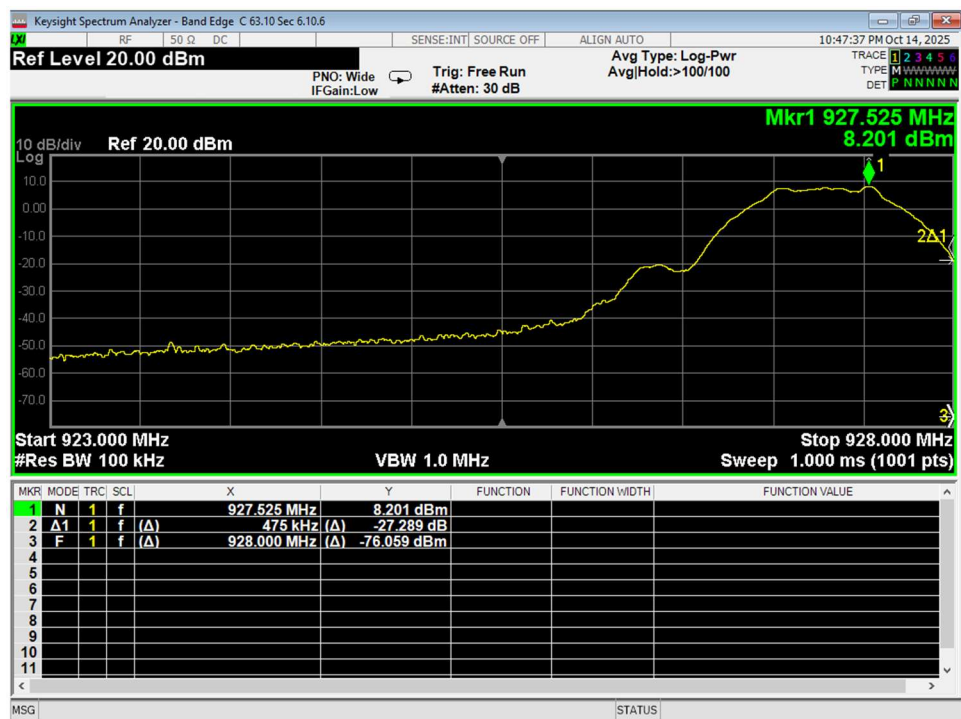
08 PSD, Mid



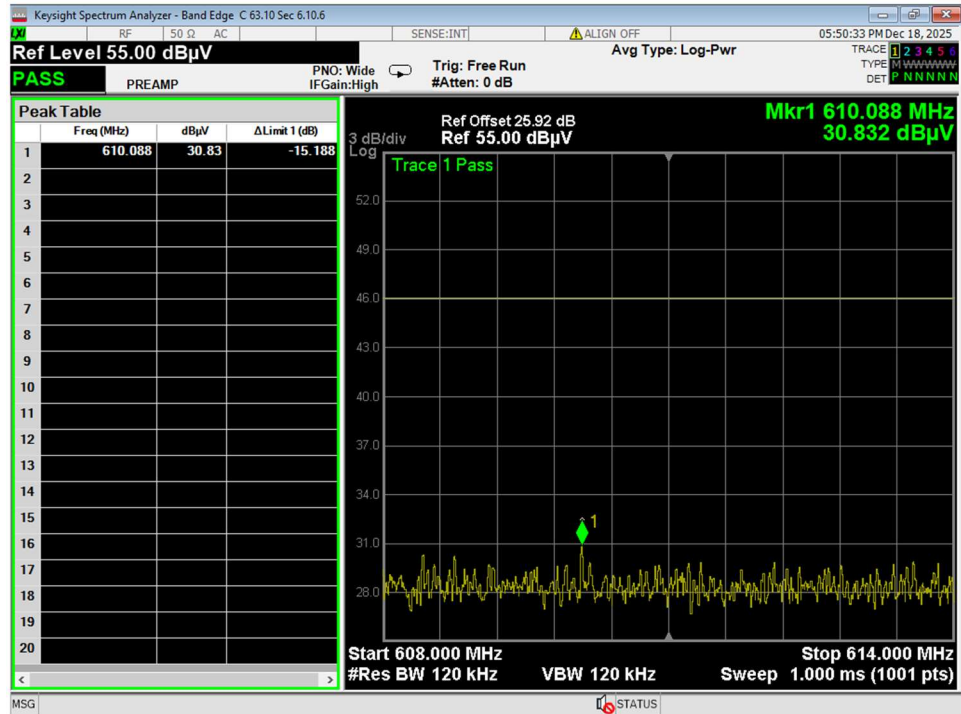
09 PSD, High



10 Lower Bandedge, Unrestricted



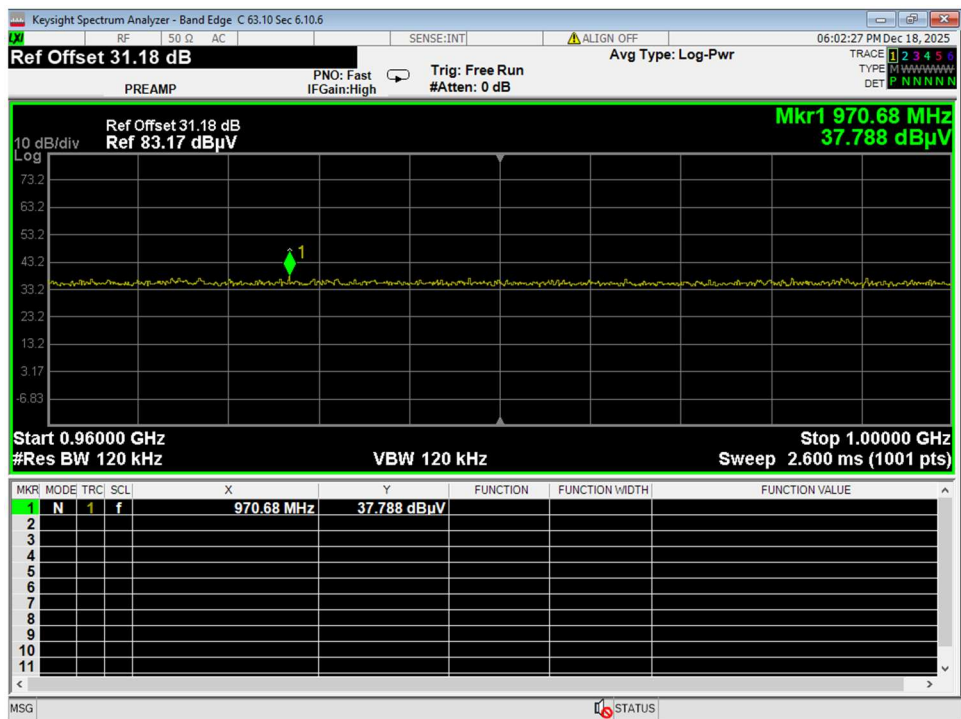
11 Higher Bandedge, Unrestricted



12 Lower Bandedge, Restricted



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13 Higher Bandedge, Restricted



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