



TEST REPORT

Report No. : A20043334(8) Date : 2025-12-29

Application No. : L2017845

Applicant : Holoindustry Kft.
Sumegvar koz9.Budapest, Hungary

Manufacturer : Holoindustry Kft.
Sumegvar koz9.Budapest, Hungary

Sample Description : Mixed reality goggles

Model No. : TGEEN1

Date Received : 2025-10-14

Test Period : 2025-10-14 to 2025-11-14

Test Requested : FCC Certification for FCC Part 15, subpart C
RSS-247 Issue 4
RSS-Gen Issue 5+A1:2019+A2:2021

Test Method : 47 CFR Part 15 (10-1-18 Edition),
ANSI C63.10 – 2020,
ANSI C63.4 – 2014

Test Engineer : Mr. So Man Pong

Conclusion : The submitted sample was found to comply with technical requirement of FCC
Part 15 Subpart C, section 15.247 and ISED Canada Radio Standards Specification
RSS-247 Issue 4, RSS-Gen Issue 5+A1:2019+A2:2021

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____


Lau Ka Ho
Deputy Manager

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The conformity statement stated in Conclusion above is based on the decision rule agreed with applicant and listed in www.cmateesting.org/qac/statement-of-conformity.pdf.
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RESULT SUMMARY

Test Item	FCC Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (b)(4) RSS-Gen Issue 5, Section 6.8	N/A	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207 RSS-Gen Issue 5, Section 8.8	ANSI C63.10-2020 Clause 6.2	PASS
Conducted Output Power and E.I.R.P	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(3) RSS-247 Issue 4, Section 6.3.2	ANSI C63.10-2020 Clause 11.9.1.2	PASS
6dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2) RSS-247 Issue 4, Section 6.3.1	ANSI C63.10-2020 Clause 11.8.1	PASS
Occupied Bandwidth	RSS-Gen Issue 5, Section 6.7	RSS-Gen Issue 5, Section 6.7	PASS
Power Spectral Density	FCC 47 CFR Part 15 Subpart C Section 15.247 (e) RSS-247 Issue 4, Section 6.3.1	ANSI C63.10-2020 Clause 11.10.2	PASS
Conducted out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247(d) RSS-247 Issue 4, Section 6.6	ANSI C63.10-2020 Clause 11.11	PASS
Radiated Spurious Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209 RSS-Gen Issue 5, Section 6.13/8.9/8.10	ANSI C63.10-2020 Clause 11.11 & Clause 11.12	PASS
Band Edge Measurements (Radiated)	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209 RSS-247 Issue 4, Section 5.5	ANSI C63.10-2020 Clause 11.13	PASS

Disclaimer and Explanations:

The declared of product specification and data (e.g., antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.

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1.0 Product Information

1.1 General Information

Sample Description : Mixed reality goggles
Model No. : TGEEN1
Primary function : Transceive signal through the Wi-Fi communication,
Transceive signal through the Bluetooth communication
Power supply : DC 3.7V (Li-ion Rechargeable battery)
DC 5.0V (micro-usb input)
RF related function : Bluetooth BLE communication
2.4 GHz ISM Band: IEEE 802.11b/g/n
Electric Accessories sold with : Nil
Interconnection cable associated sold with : USB Type-C (HHS 502248)
Operating condition : -10°C to +45 °C
Model difference : Not applicable
Remark : N/A

1.2 Technical Information

Frequency Band : 2400 MHz to 2483.5 MHz
Operating Frequency : 2402 MHz to 2480MHz
Modulation : GFSK
Number of Channel : 40
Channel Separation : 2.0MHz
Signal Type : Data
Number of Antenna : One
Antenna Type : Dipole Antenna
Antenna Gain : 3.7 dBi
Rated Input Voltage : DC 3.7 V (Li-ion rechargeable battery)
DC 5.0 V (USB Type-C input)
RF Technology Used : Bluetooth 5.3
Simplex or Duplex : Simplex
Maximum Peak Power : 0.63 dBm
Normal Test Voltage : DC 3.7 V
FVIN : 2.9

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1.3 Associated Electric Accessories Information

N/A

1.4 Others Accessories

Battery

Model No.: : HHS 502248
Battery Type: : Lithium-ion Polymer Rechargeable Battery
Rated Voltage: : DC 3.7 V
Rated Capacity: : 500 mAh

Cable

Description: : USB Type-C to USB 3.0 Type A Cable
Connector: : USB Type-C / USB 3.0 Type A
Cable Type: : Unshielded without ferrite
Length: : 1 Meter

1.5 Other Information

Operation Frequency Each of Channel

$$f = 2402 + 2k \text{ MHz, } k = 0, \dots, 39$$

Note:

f is the operating frequency (MHz);
k is the operating channel.

2.0 Equipment Under Test (EUT)

Product Description : Mixed reality goggles
Model : TGEEN1
DUT Stage : Identical Prototype
Serial No. : Not specified
Software Version : 1.0
Hardware Version : 1.0
Sample Type : Production Sample and engineering sample
Rationale of selection : Only one model number

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3.0 Location of Test Facility

CMA Industrial Development Foundation Ltd.
Room 1302, Yan Hing Centre,
9-13 Wong Chuk Yeung,
Fo Tan, Shatin,
New Territories
Hong Kong.

FCC Accredited Lab (Designation Number: HK0004)
ISED Recognized Laboratory (CAB identifier HK0004)

4.0 List of test equipment, support equipment and cables

4.1 Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date	Calibration Period
EMI Test Receiver	Rohde & Schwarz	ESCI	100152	11 Dec 2025	1Year
Spectrum Analyzer	R&S	FSV40	100964	10 Dec 2025	1Year
Spectrum Analyzer	Rohde & Schwarz	FSP30	100628	10 Dec 2025	1Year
Broadband Antenna	Schaffner	CBL6112B	2692	27 Dec 2025	2Years
Loop Antenna	EMCO	6502	00056620	04 Jul 2027	2Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	14 Jul 2027	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	17 Jul 2027	2Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	04 Jan 2026	2Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	29 Dec 2026	2Years
Coaxial Cable	Schaffner	RG 213/U	N/A	14 Jan 2026	1Year
Coaxial Cable	Suhner	RG 214/U	N/A	14 Jan 2026	1Year
Coaxial Cable	Suhner	Sucoflex_104	N/A	10 Jan 2026	2Year
LISN	Rohde & Schwarz	ENV216	101323	13 Dec 2025	1Year
Coaxial Cable	Tyco Electronics	RG 58C/U	N/A	17 Dec2025	1Year

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Rohde & Schwarz TS8997 Testing System					
Spectrum Analyzer	Rohde & Schwarz	FSV 40	101190	10 Dec 2025	1 Year
OSP	Rohde & Schwarz	OSP	OSP-B157W	10 Dec 2025	1 Year

4.2 Supporting equipment

Equipment Name	Manufacturer	Model	Serial	Provided by
AC/DC adaptor	Apple	A1299	Not labelled	CMA

Remark: *only used for configuring engineering mode

4.3 Cables

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.3 Meter	Applicant

4.4 Software

Software Name	Version	Function	Provided by
QRCT4	4.0.127.1	Configure Engineering mode	Applicant

Remark: *only used for configuring engineering mode

5.0 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

Radiated emissions

Frequency	Uncertainty (U_{lab})
30MHz ~ 200MHz (Horizontal)	4.12dB
30MHz ~ 200MHz (Vertical)	4.23dB
200MHz ~1000MHz (Horizontal)	4.04dB
200MHz ~1000MHz (Vertical)	4.08dB
1GHz ~6GHz	3.70dB
6GHz ~18GHz	5.21dB
18GHz~40GHz	4.15dB

Line-conducted emissions

Frequency	Uncertainty (U_{lab})
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150kHz~30MHz	3.33dB
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6.0 Test Configuration

6.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
NT/NV	+15 to +35	DC 3.7 V Battery	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

6.2 Test Channels

Type of Modulation	Tx/Rx Frequency	Test RF Channel Lists		
GFSK	2402 MHz to 2480 MHz	Lowest(L)	Middle(M)	Highest(H)
		Channel 0	Channel 19	Channel 39
		2402 MHz	2440 MHz	2480 MHz

6.3 EUT Test Status

Type of Modulation	Tx Function	Description
GFSK	1Tx	1. Keep the EUT in continuously transmitting with modulation test single.

Power Setting (Provided by the customer)
Power Setting: 7

Test Software (Provided by the customer)
Engineering mode: QRCT

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6.4 Test setup

6.4.1 For Radiated Emissions test setup

Figure 1. Below 30MHz

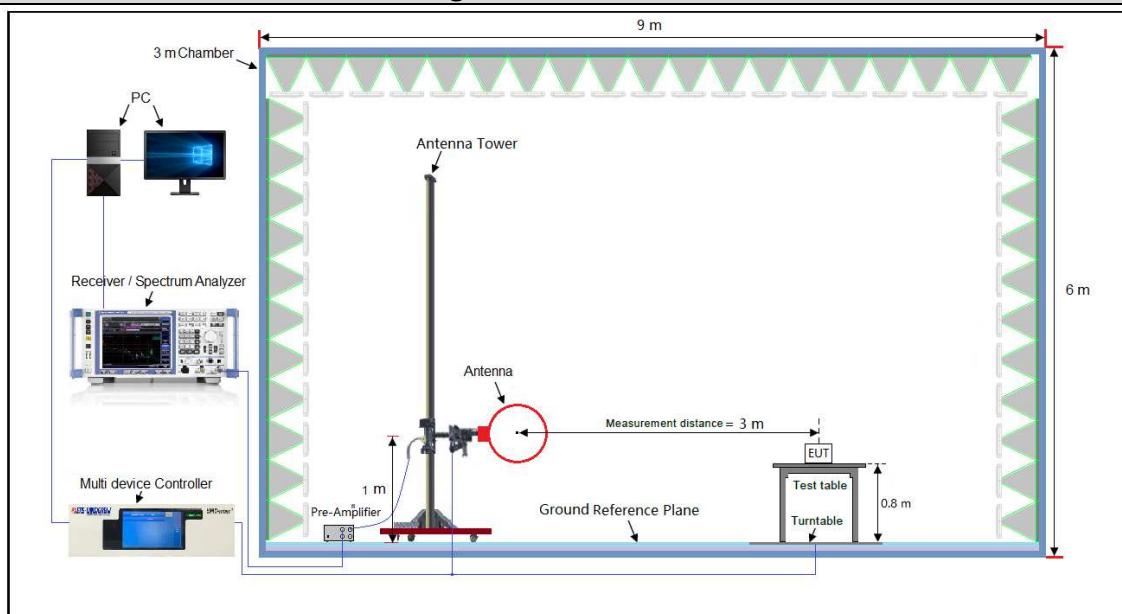
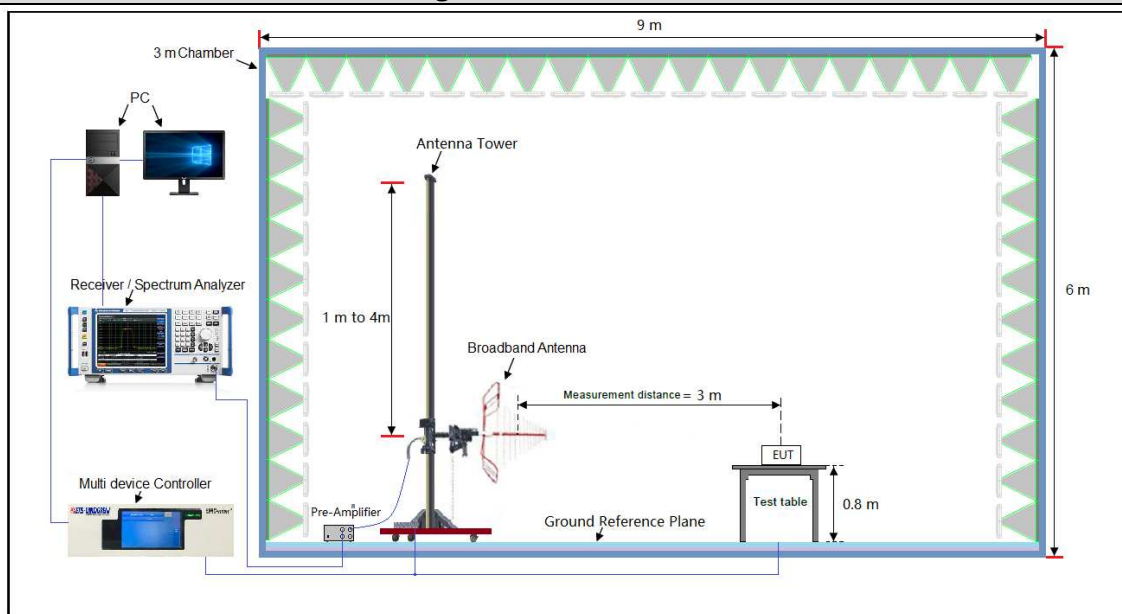


Figure 2. 30MHz to 1GHz

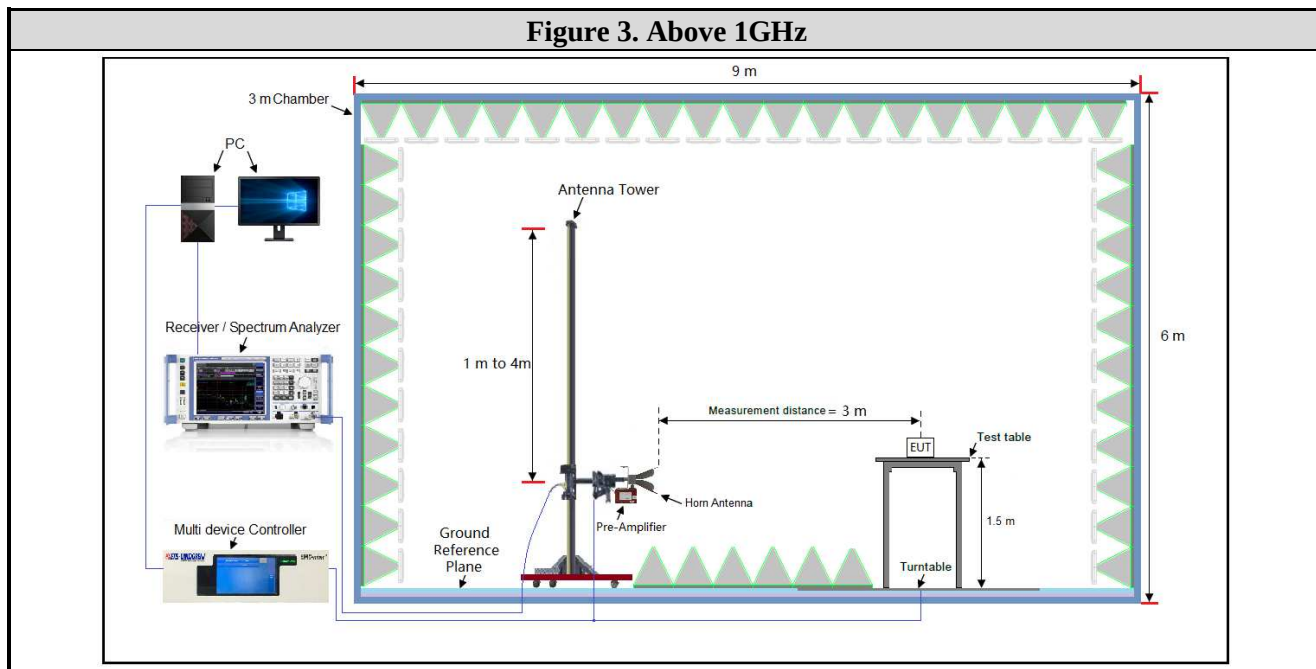


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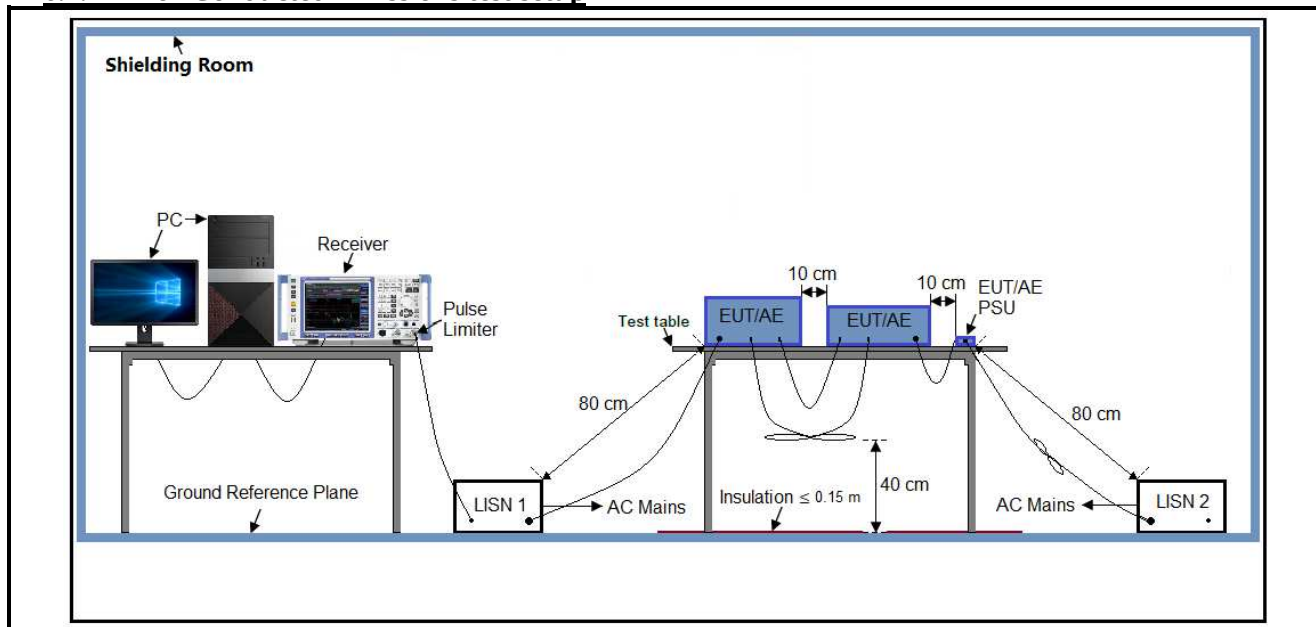
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6.4.2 For Conducted Emissions test setup



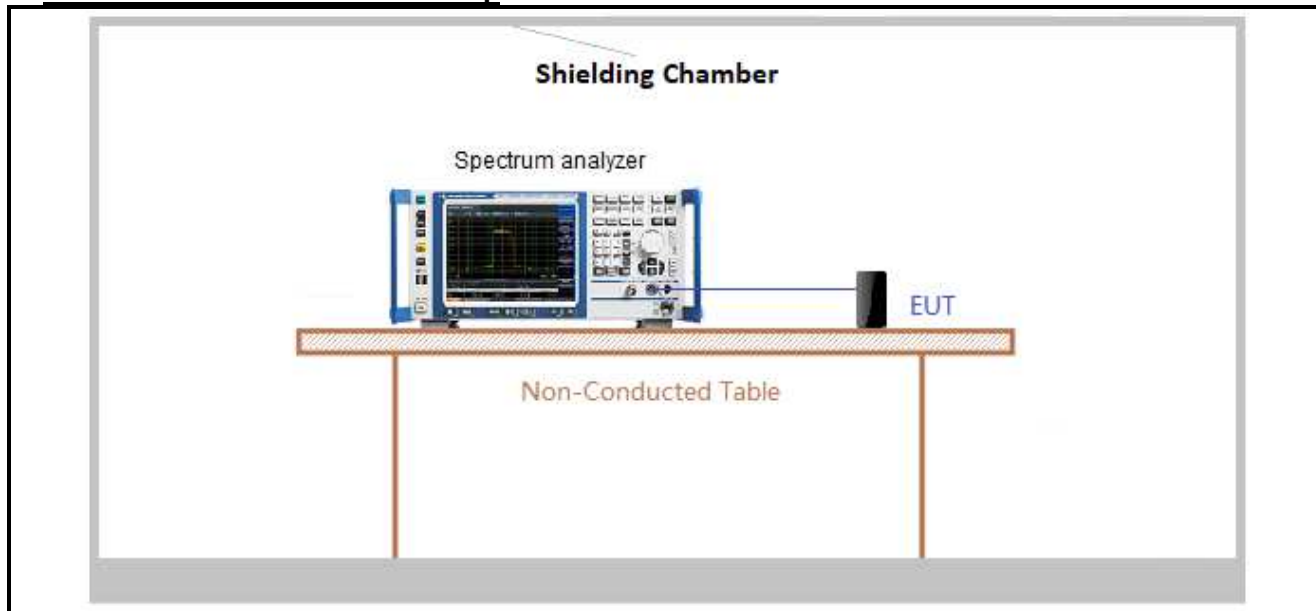
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6.4.3 For Conducted RF test setup



6.5 System Test Configuration

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.7V battery. Only the worst-case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in orientation.

All readings are extrapolated back to the equivalent three-meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

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7.0 Measurement

7.1 General Test condition

Temperature : 23.3°C
Test Voltage : DC 3.7 V
Humidity : 48.3%
Atmosphere Pressure : 100.3kPa

7.2 Duty Cycle

7.2.1 Measurement

Measuring procedure : ANSI C63.10-2020 Clause 11.6.

7.2.2 Final Result

Mode	On Time (ms)	Period (ms)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T Minimum VBW (kHz)
LE	0.390	0.630	0.62	61.90	2.08	2.56
2LE	0.210	0.630	0.33	33.33	4.77	4.76

Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/\text{Duty cycle})$;

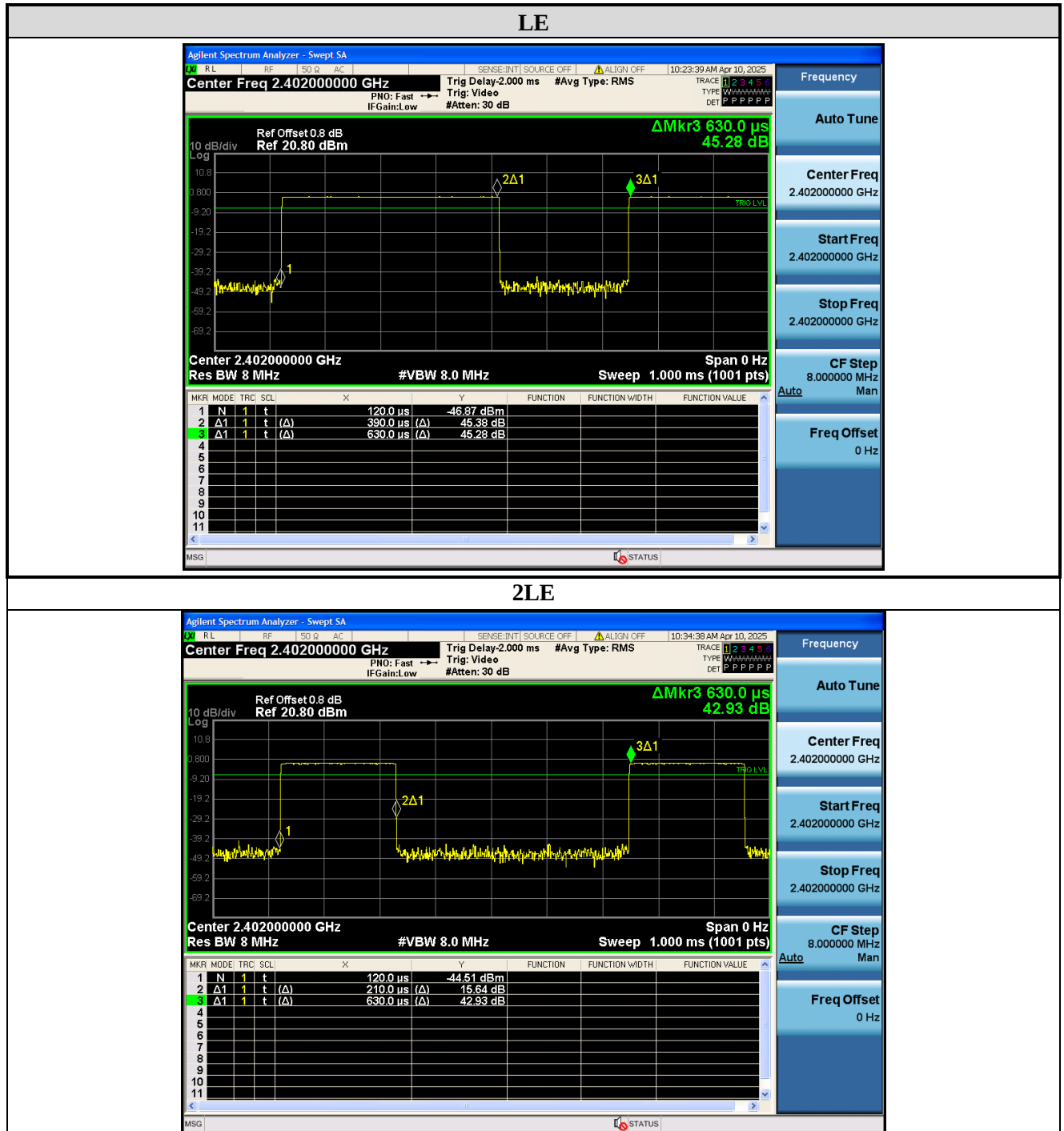
The test plot as follows

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7.3 Conducted Output Power and E.I.R.P

7.3.1 Measurement

Requirement : FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(3)
RSS-247 Issue 4, Section 6.3.2

Measuring procedure : ANSI C63.10-2020 Clause 11.9.1.3

Limit: For DTSs employing digital modulation techniques operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W, except as fixed point-to-point systems.

Test procedure : 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
2. Measure out each test modes' peak or average output power, record the power level.
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: : Refer to section 6.4.3 for details.

Test result : Pass

7.3.2 Final Result

Mode	Frequency	Max. AvG Power	Max. Peak Power		Maximum e.i.r.p	Peak Power Limit	Maximum e.i.r.p Limit	Result
	(MHz)	(dBm)	(dBm)	(W)	(dBm)	(dBm)	(dBm)	
LE	2402	-3.61	-1.32	0.0007	2.38	30	36.02	Pass
	2440	-2.86	-0.61	0.0009	3.09	30	36.02	Pass
	2480	-1.59	0.63	0.0012	4.33	30	36.02	Pass
2LE	2402	-6.46	-1.02	0.0008	2.68	30	36.02	Pass
	2440	-5.70	-0.23	0.0009	3.47	30	36.02	Pass
	2480	-4.32	0.94	0.0012	4.64	30	36.02	Pass

Note:

1. The antenna gain of 3.7 dBi less than 6dBi maximum permission antenna gain value based on 1 watt peak output power limit.
2. The maximum EIRP is calculated from max output power and antenna gain, the antenna gain provided by the customer, and the customer takes all the responsibilities for the accuracy of antenna gain.

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7.4 6dB Bandwidth and Occupied Bandwidth

7.4.1 Measurement

- Requirement : FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)
RSS-247 Issue 4, Section 6.3.1
RSS-Gen Issue 5, Section 6.7
- Measuring procedure : ANSI C63.10-2020 Clause 11.8.1
RSS-Gen Issue 5, Section 6.7
- Limit : For direct sequence systems, the minimum 6dB bandwidth shall be 500kHz.
- Test procedure : Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
Use the following spectrum analyzer settings:

6dB Bandwidth

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

- a) Set RBW = 1% to 5% of the occupied bandwidth
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

- Test Setup: : Refer to section 6.4.3 for details.
- Test Mode: : Link mode
- Test Results: Please refer to Appendix A.1 and A.2

7.4.2 Final Result

Remark: Detail test result and equipment setting refer to Appendix A.1 and A.2.

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7.5 Power Spectral Density

7.5.1 Measurement

Requirement	: FCC 47 CFR Part 15 Subpart C Section 15.247 (e) RSS-247 Issue 4, Section 6.3.1
Measuring procedure	: ANSI C63.10-2020 Clause 11.10.2
Limit	: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
Test procedure	: Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Use the following spectrum analyzer settings: a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. d) Set the VBW $\geq 3 \times \text{RBW}$. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude level within the RBW. j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat. Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.
Test Setup:	: Refer to section 6.4.3 for details.
Test Mode:	: Link mode
Test Results:	Please refer to Appendix A.3

7.5.2 Final Result

Remark: Detail test result and equipment setting refer to Appendix A.3

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7.6 Conducted out of Band Emission

7.6.1 Measurement

- Requirement : FCC 47 CFR Part 15 Subpart C Section 15.247(d)
RSS-247 Issue 2, Section 6.6
- Measuring procedure : ANSI C63.10-2020 Clause 11.11
- Limit : In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.
- Test procedure : Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
Use the following spectrum analyzer settings:
- Step 1: Reference level measurement**
- a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to ≥ 1.5 times the DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW $\geq 3 \times$ RBW.
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Step 2: Emission level measurement

- a) Set RBW = 100 kHz.
- b) Set VBW ≥ 300 kHz.
- c) Detector = peak.
- d) Sweep = auto couple.
- e) Trace Mode = max hold.
- f) Allow trace to fully stabilize.
- g) Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

- Test Setup: : Refer to section 6.4.3 for details.
- Test Mode: : Link mode
- Test Results: Please refer to Appendix A.5

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7.6.2 Final Result

Remark: Detail test result and equipment setting refer to Appendix A.5

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7.7 Radiated Spurious Emissions

7.7.1 Measurement

- Requirement : FCC 47 CFR Part 15 Subpart C Section 15.205/15.209
RSS-Gen Issue 5, Section 6.13/8.9/8.10
- Measuring procedure : ANSI C63.10-2020 Clause 11.11 & Clause 11.12
- Receiver Setup : Refer to 7.7.2
- Limit : Refer to 7.7.3
- Test procedure : 1. From 30 MHz to 1GHz test procedure as below:
- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - 3) The antenna 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 set to make the measurement.
 - 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - 6) If the emission level of the EUT in peak mode was 10dB 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 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
2. Above 1GHz test procedure as below:
- 1) Different from above is the test site, change from Semi-Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
 - 2) Test the EUT in the lowest channel, middle channel, the Highest channel
 - 3) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y axis positioning which is the worst case.
- Repeat above procedures until all frequencies measured were complete.
- Test Setup : Refer to section 6.4.1 for details.

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Test Result : Pass

7.7.2 Receiver Setup

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

7.7.3 Spurious Emissions Limit

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, 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, specified above by more than 20 dB under any condition of modulation.

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7.7.4 Final Result

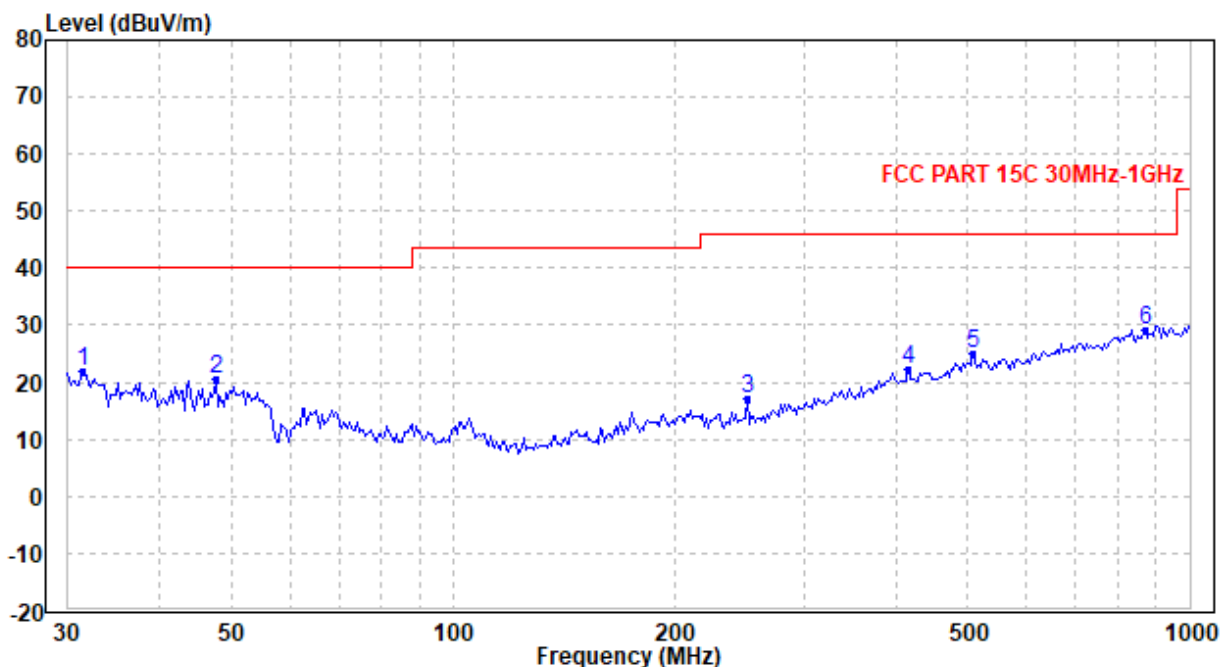
Radiated Emission Test Data (9 kHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz):

Worst-Case Configuration

Horizontal



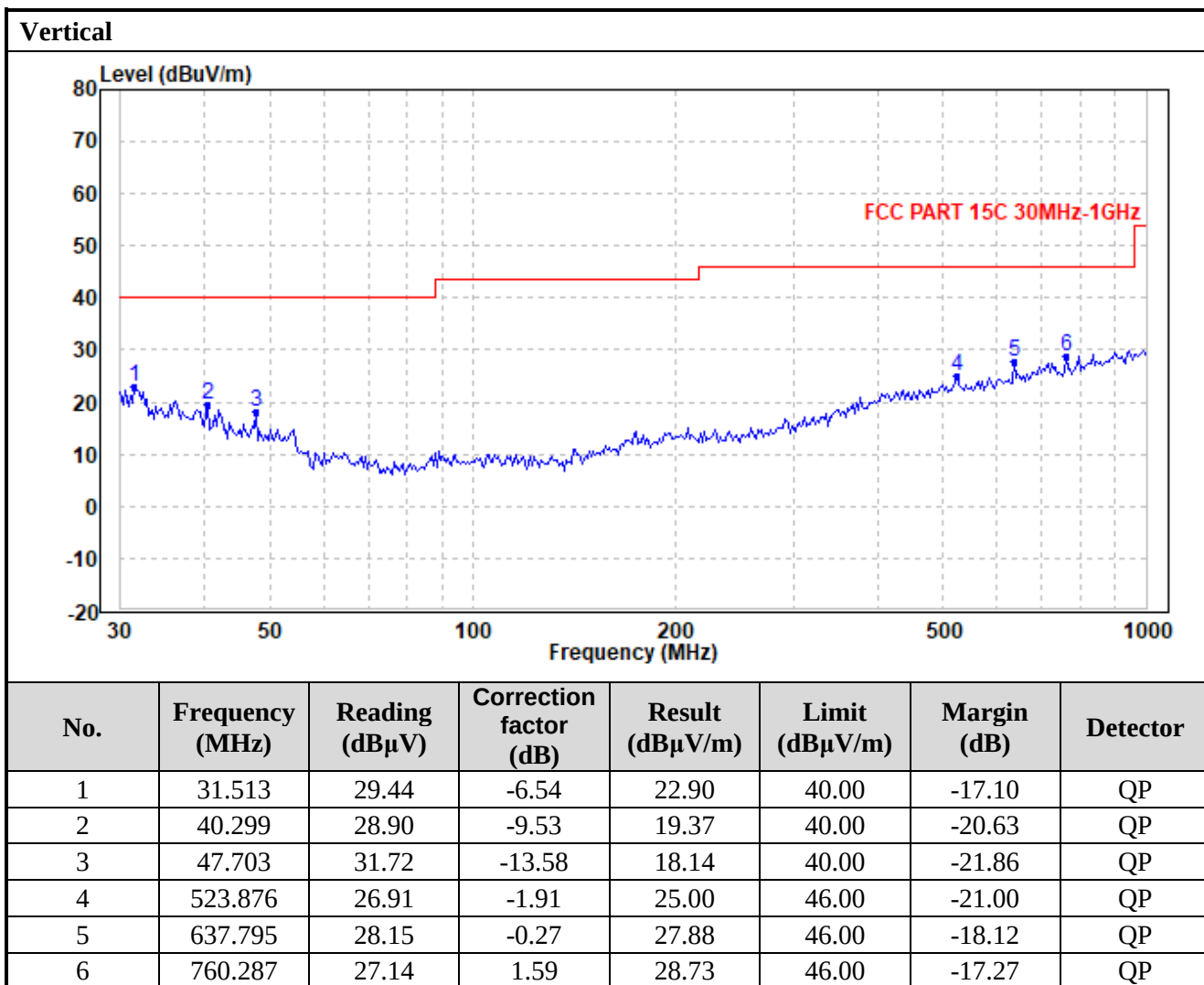
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.513	28.63	-6.54	22.09	40.00	-17.91	QP
2	47.703	34.06	-13.58	20.48	40.00	-19.52	QP
3	250.486	27.85	-10.61	17.24	46.00	-28.76	QP
4	415.449	26.24	-3.86	22.38	46.00	-23.62	QP
5	509.356	27.16	-2.09	25.07	46.00	-20.93	QP
6	868.886	25.47	3.84	29.31	46.00	-16.69	QP

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Radiated Emission Test Data (Above 1GHz):								
LE_ Lowest Channel:								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4804.000	34.90	-2.08	32.82	54.00	-21.18	Average	Horizontal
2	4804.000	44.48	-2.08	42.40	74.00	-31.60	Peak	Horizontal
3	7206.000	34.93	1.30	36.23	54.00	-17.77	Average	Horizontal
4	7206.000	43.99	1.30	45.29	74.00	-28.71	Peak	Horizontal
5	4804.000	34.99	-2.08	32.91	54.00	-21.09	Average	Vertical
6	4804.000	44.45	-2.08	42.37	74.00	-31.63	Peak	Vertical
7	7206.000	34.85	1.30	36.15	54.00	-17.85	Average	Vertical
8	7206.000	45.21	1.30	46.51	74.00	-27.49	Peak	Vertical
LE_ Middle Channel:								
1	4880.000	34.43	-2.05	32.38	54.00	-21.62	Average	Horizontal
2	4880.000	43.05	-2.05	41.00	74.00	-33.00	Peak	Horizontal
3	7320.000	34.43	1.31	35.74	54.00	-18.26	Average	Horizontal
4	7320.000	44.40	1.31	45.71	74.00	-28.29	Peak	Horizontal
5	4880.000	34.14	-2.05	32.09	54.00	-21.91	Average	Vertical
6	4880.000	44.47	-2.05	42.42	74.00	-31.58	Peak	Vertical
7	7320.000	34.39	1.31	35.70	54.00	-18.30	Average	Vertical
8	7320.000	45.26	1.31	46.57	74.00	-27.43	Peak	Vertical
LE_ Highest Channel:								
1	4960.000	35.65	-2.02	33.63	54.00	-20.37	Average	Horizontal
2	4960.000	46.47	-2.02	44.45	74.00	-29.55	Peak	Horizontal
3	7440.000	34.56	1.32	35.88	54.00	-18.12	Average	Horizontal
4	7440.000	44.79	1.32	46.11	74.00	-27.89	Peak	Horizontal
5	4960.000	35.65	-2.02	33.63	54.00	-20.37	Average	Vertical
6	4960.000	47.06	-2.02	45.04	74.00	-28.96	Peak	Vertical
7	7440.000	34.56	1.32	35.88	54.00	-18.12	Average	Vertical
8	7440.000	45.15	1.32	46.47	74.00	-27.53	Peak	Vertical

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2LE_ Lowest Channel:								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4804.000	34.79	-2.08	32.71	54.00	-21.29	Average	Horizontal
2	4804.000	44.22	-2.08	42.14	74.00	-31.86	Peak	Horizontal
3	7206.000	34.78	1.30	36.08	54.00	-17.92	Average	Horizontal
4	7206.000	45.02	1.30	46.32	74.00	-27.68	Peak	Horizontal
5	4804.000	35.11	-2.08	33.03	54.00	-20.97	Average	Vertical
6	4804.000	44.33	-2.08	42.25	74.00	-31.75	Peak	Vertical
7	7206.000	34.92	1.30	36.22	54.00	-17.78	Average	Vertical
8	7206.000	45.93	1.30	47.23	74.00	-26.77	Peak	Vertical
2LE_ Middle Channel:								
1	4880.000	34.05	-2.05	32.00	54.00	-22.00	Average	Horizontal
2	4880.000	45.24	-2.05	43.19	74.00	-30.81	Peak	Horizontal
3	7320.000	34.16	1.31	35.47	54.00	-18.53	Average	Horizontal
4	7320.000	44.82	1.31	46.13	74.00	-27.87	Peak	Horizontal
5	4880.000	33.97	-2.05	31.92	54.00	-22.08	Average	Vertical
6	4880.000	43.61	-2.05	41.56	74.00	-32.44	Peak	Vertical
7	7320.000	34.45	1.31	35.76	54.00	-18.24	Average	Vertical
8	7320.000	43.70	1.31	45.01	74.00	-28.99	Peak	Vertical
2LE_ Highest Channel:								
1	4960.000	35.19	-2.02	33.17	54.00	-20.83	Average	Horizontal
2	4960.000	45.51	-2.02	43.49	74.00	-30.51	Peak	Horizontal
3	7440.000	34.65	1.32	35.97	54.00	-18.03	Average	Horizontal
4	7440.000	44.18	1.32	45.50	74.00	-28.50	Peak	Horizontal
5	4960.000	35.79	-2.02	33.77	54.00	-20.23	Average	Vertical
6	4960.000	45.00	-2.02	42.98	74.00	-31.02	Peak	Vertical
7	7440.000	34.60	1.32	35.92	54.00	-18.08	Average	Vertical
8	7440.000	44.67	1.32	45.99	74.00	-28.01	Peak	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit

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7.8 Band Edge Measurements (Radiated)

7.8.1 Measurement

Requirement : FCC 47 CFR Part 15 Subpart C Section 15.205/15.209
RSS-247 Issue 4, Section 6.6

Measuring procedure : ANSI C63.10-2020 Clause 11.12

Limit : Refer to 7.8.2

Test procedure : Radiated band edge measurements at 2390 MHz and 2483.5 MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 3 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz or 1/T for average levels).

1. Use radiated spurious emission test procedure described in clause 5.10. The transmitter output (antenna port) was connected to the test receiver.
2. Set the PK and AV limit line.
3. Record the fundamental emission and emissions out of the band-edge.
4. Determine band-edge compliance as required.

Test Setup: : Refer to section 6.4 for details.

Test Result : Pass

7.8.2 Limit

Frequency	Limit (dBμV/m @3m)	Remark
30 MHz-88 MHz	40.0	Quasi-peak Value
88 MHz-216 MHz	43.5	Quasi-peak Value
216 MHz-960 MHz	46.0	Quasi-peak Value
960 MHz-1 GHz	54.0	Quasi-peak Value
Above 1 GHz	54.0	Average Value
	74.0	Peak Value

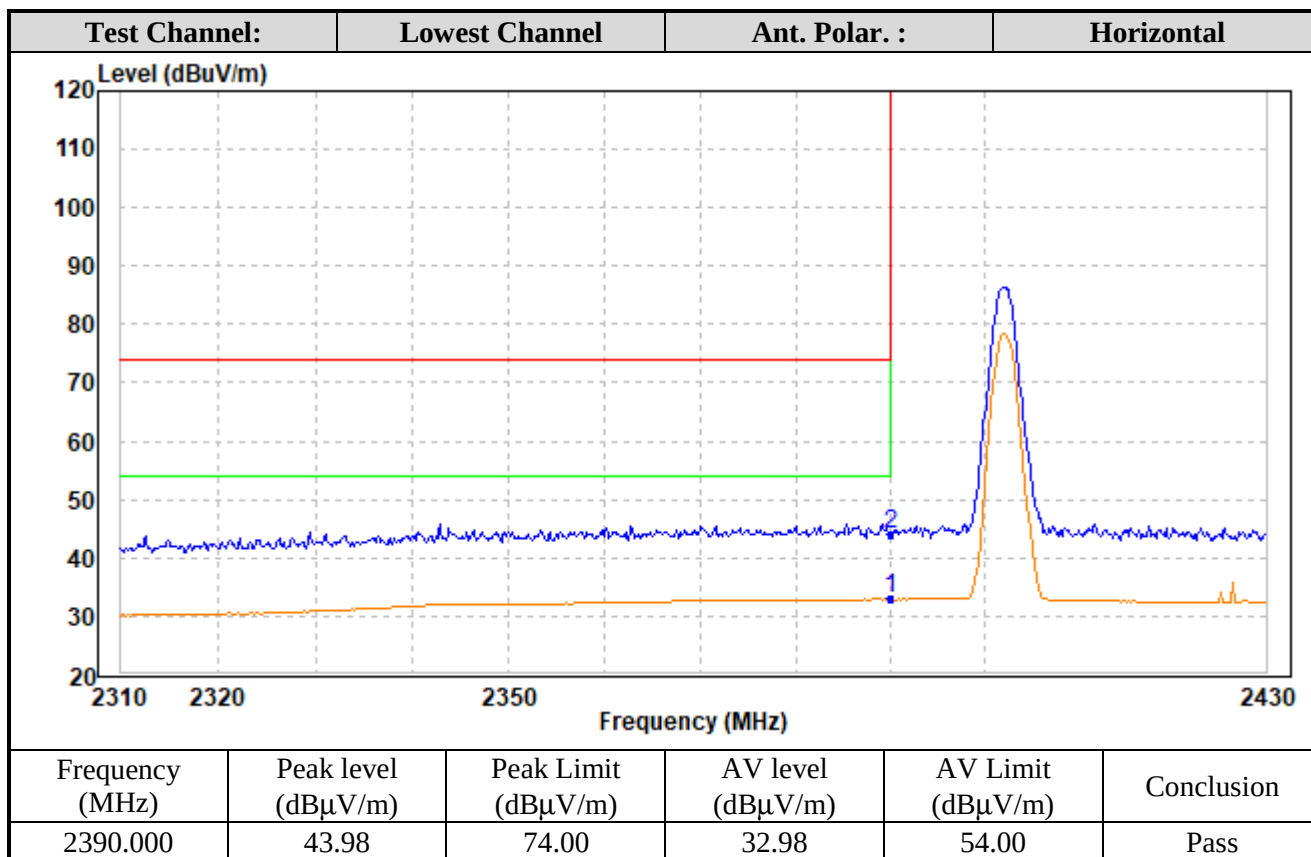
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7.8.3 Final Result

LE Mode:

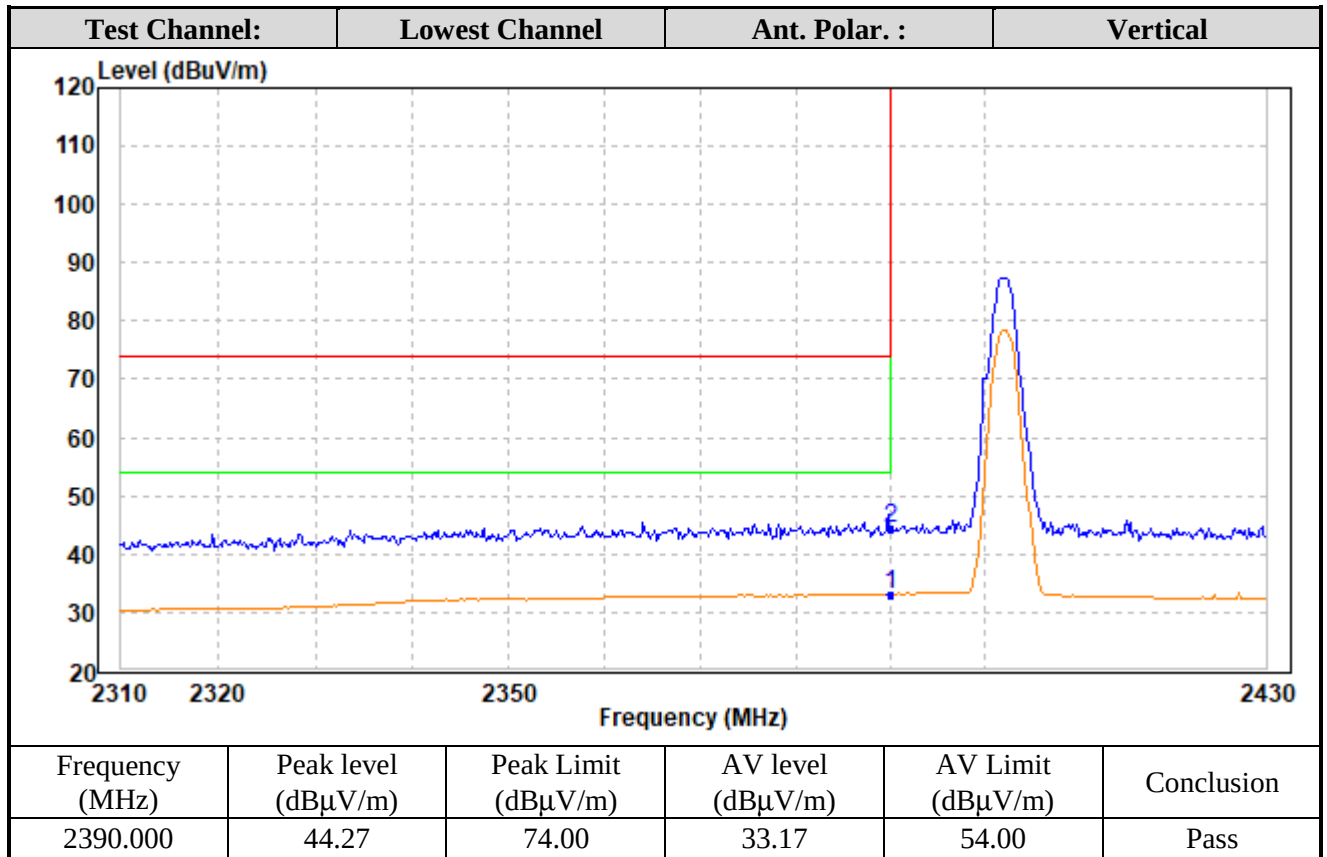


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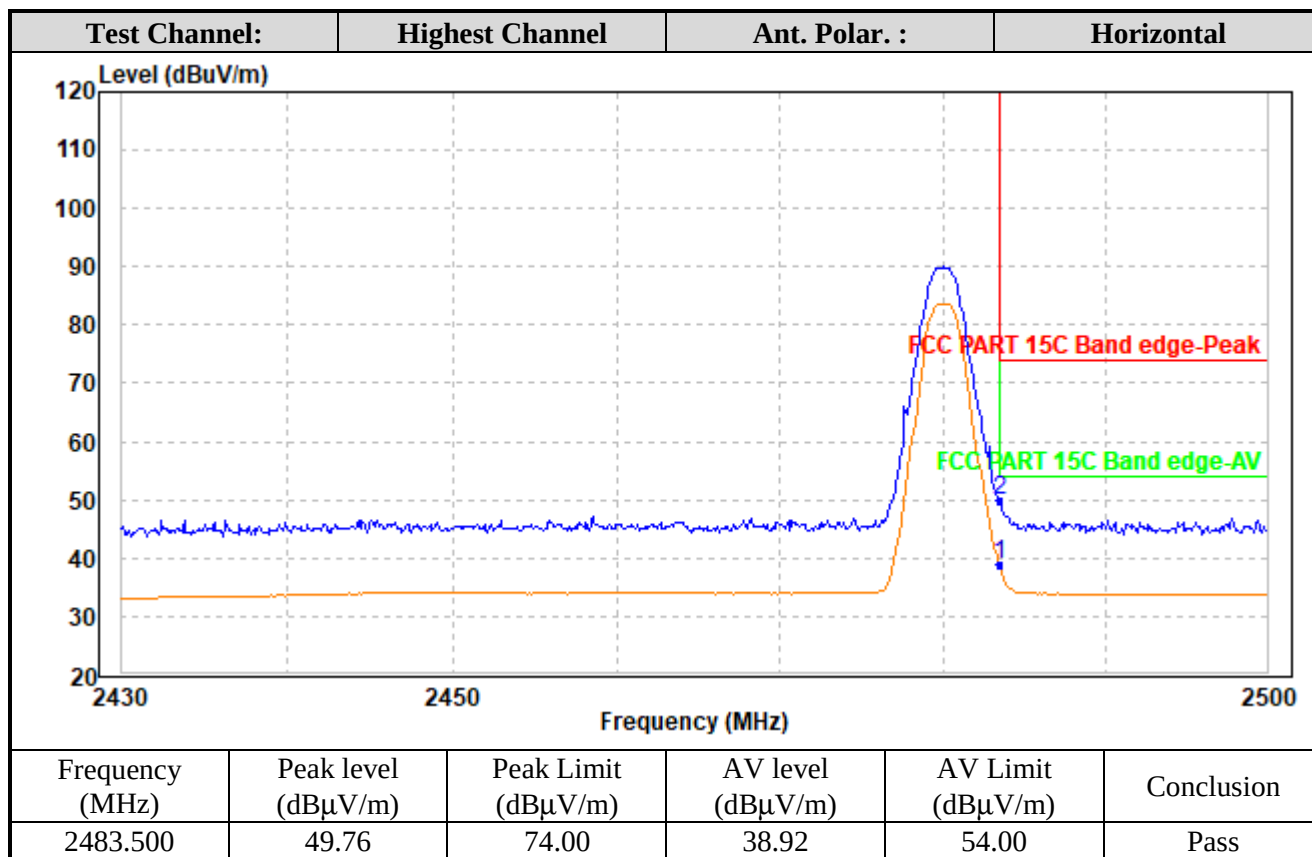


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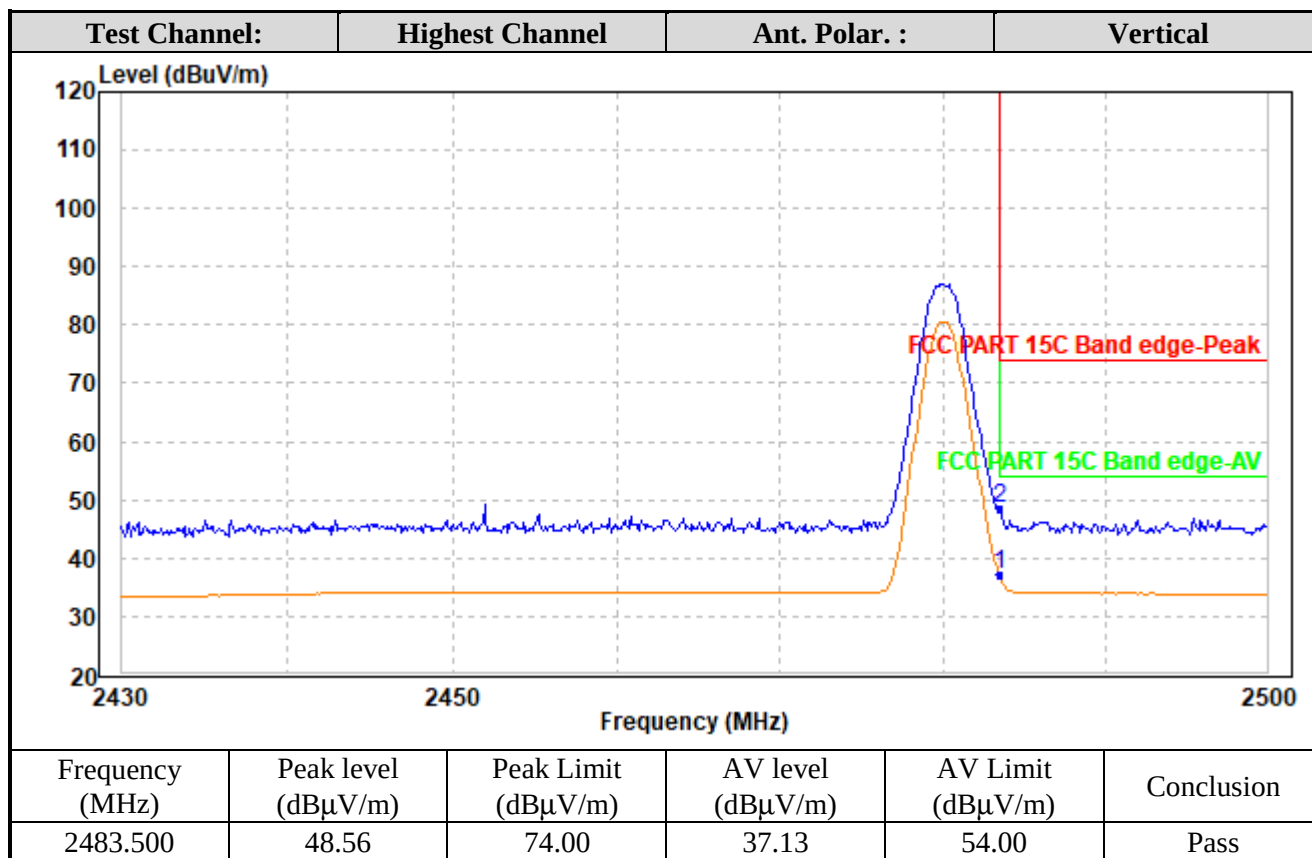


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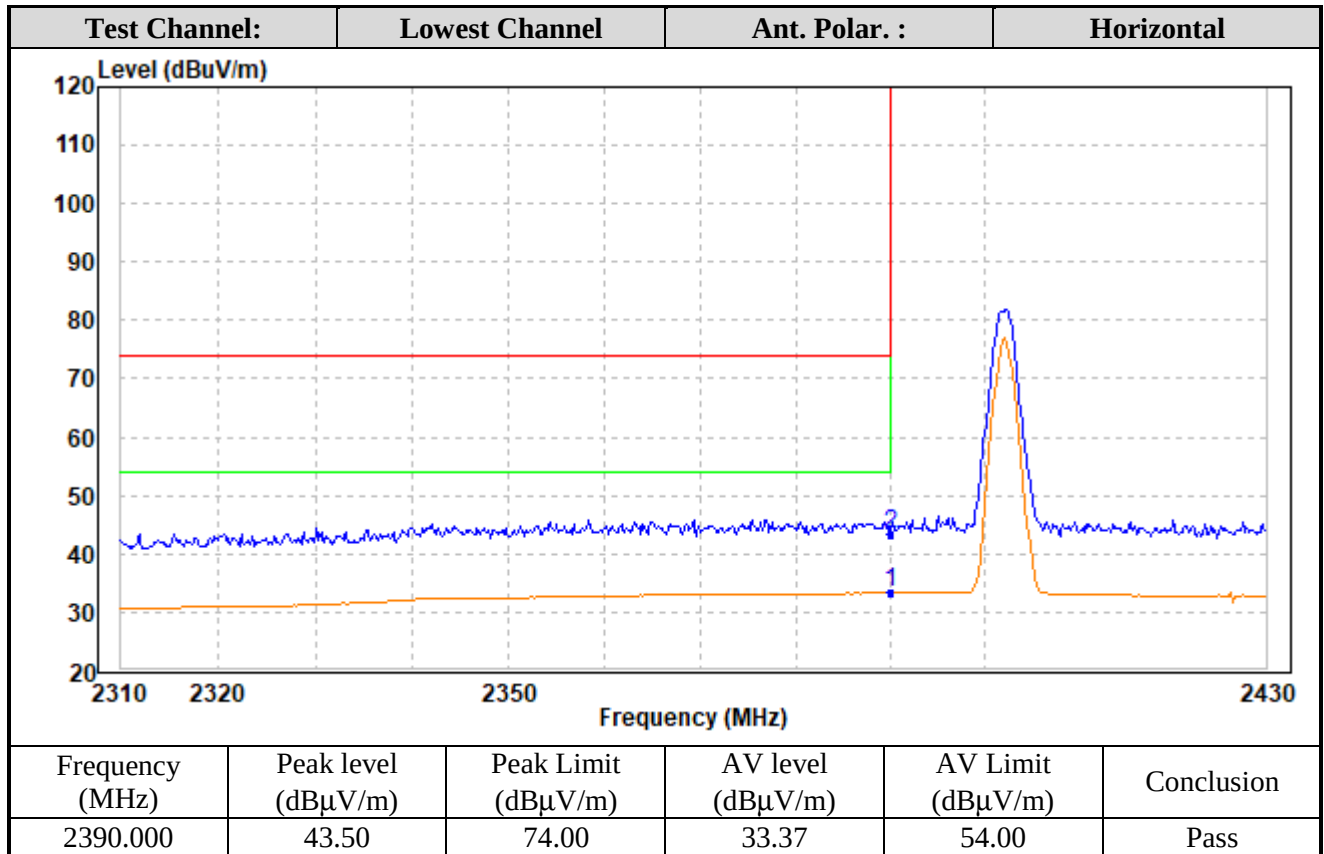
FCC ID: 2BL9D-THERMALGLASS0
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2LE Mode:

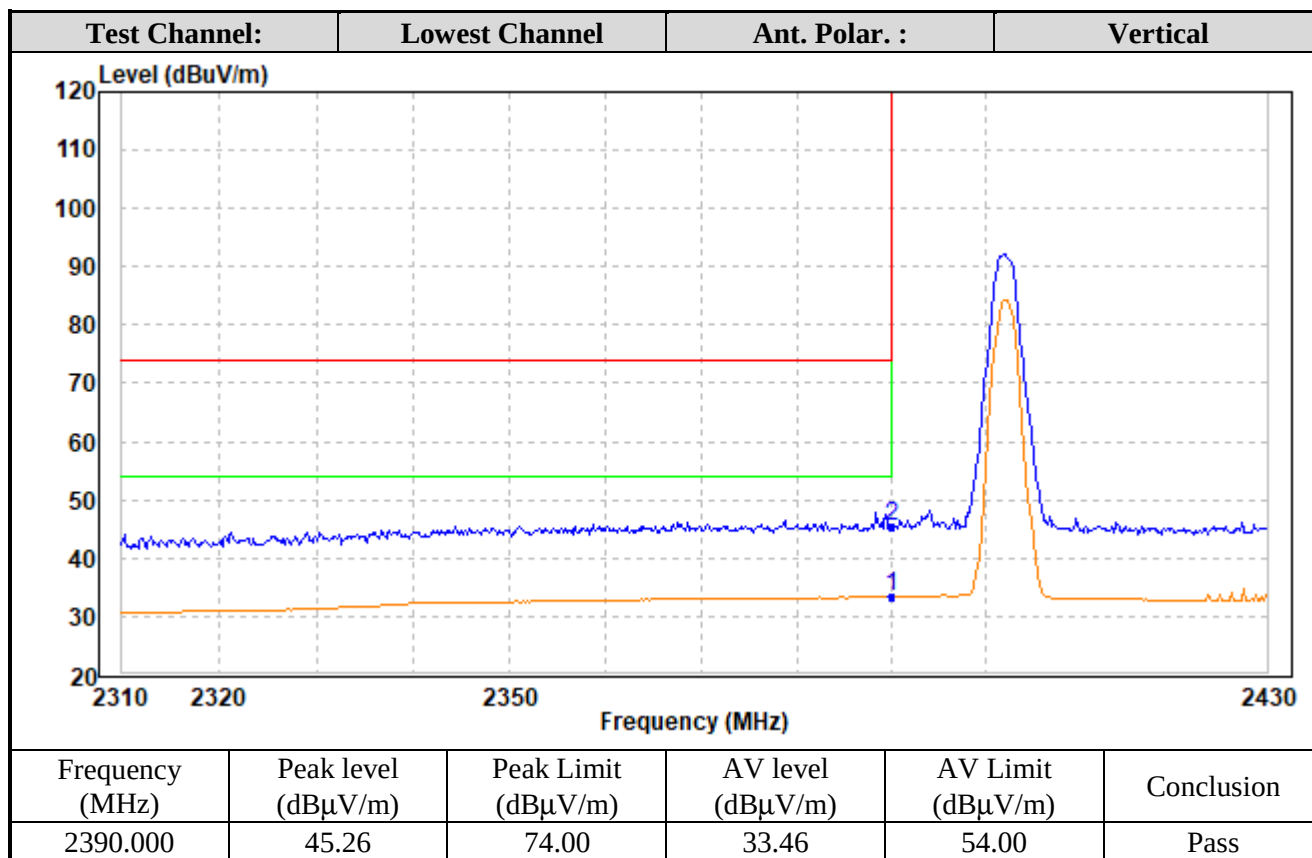


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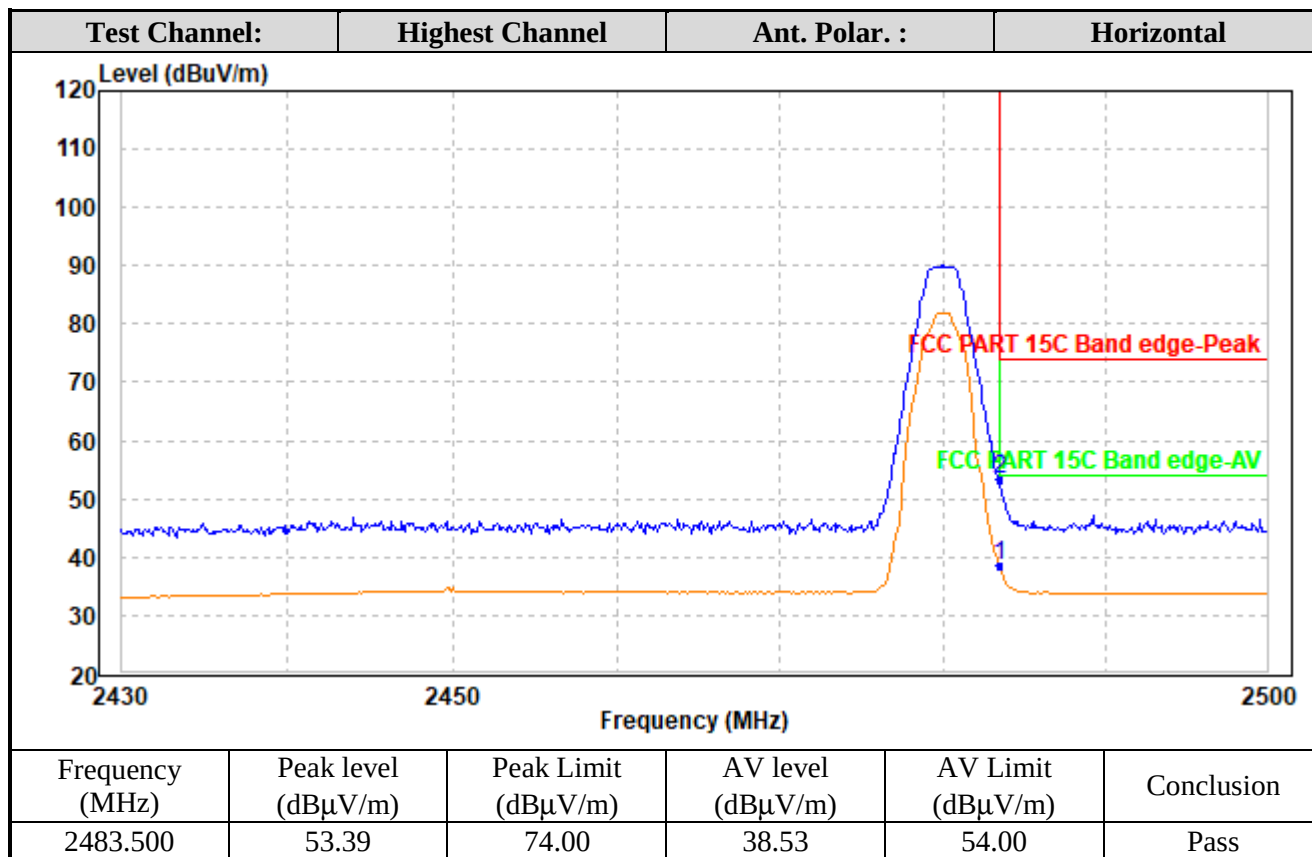


FCC ID: 2BL9D-THERMALGLASS0
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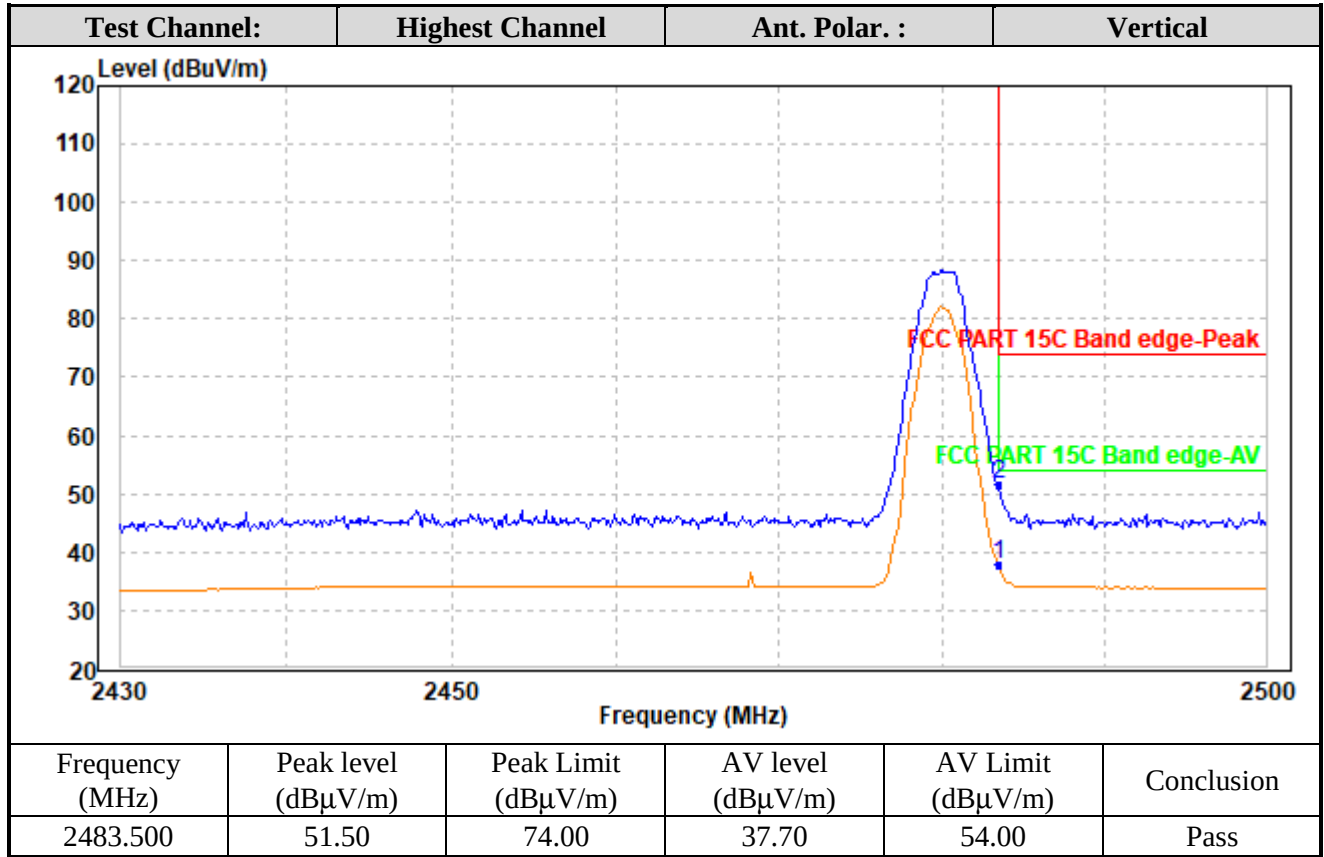


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7.9 Conducted Emission

7.9.1 Measurement

Requirement	: 47 CFR Part 15C Section 15.207 RSS-Gen Issue 5, Section 8.8
Measuring procedure	: ANSI C63.10-2020 Section 6.2
Limit	: Refer to 7.9.2
Test procedure	: Test frequency range :150KHz-30MHz 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Test Setup:	: Refer to section 6.4 for details.
Test Result	: Pass

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7.9.2 Limit

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

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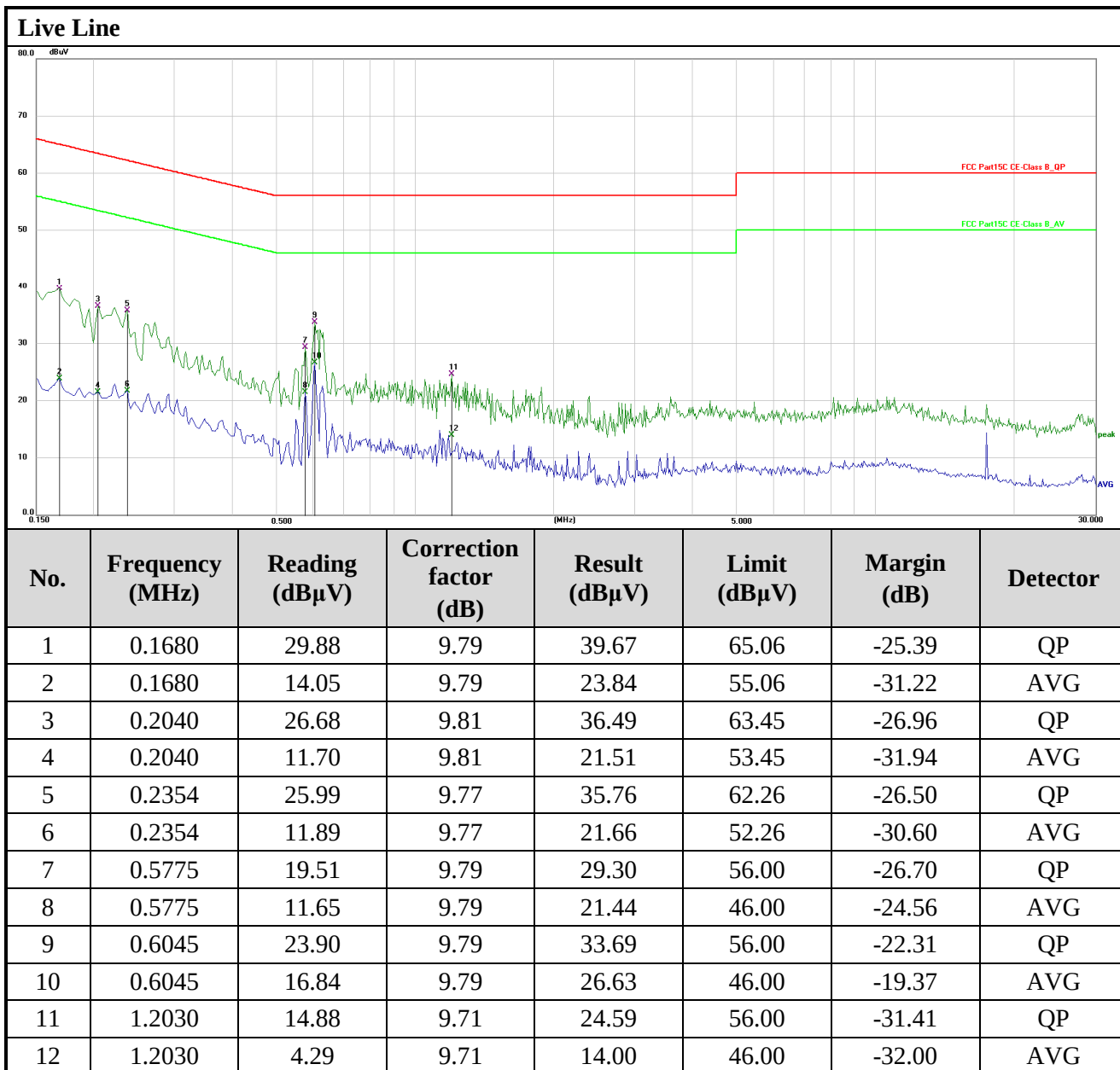
Date : 2025-12-29

7.9.3 Final Result

The worst measurement data as follows:

Quasi Peak and Average:

Mode: BT Link

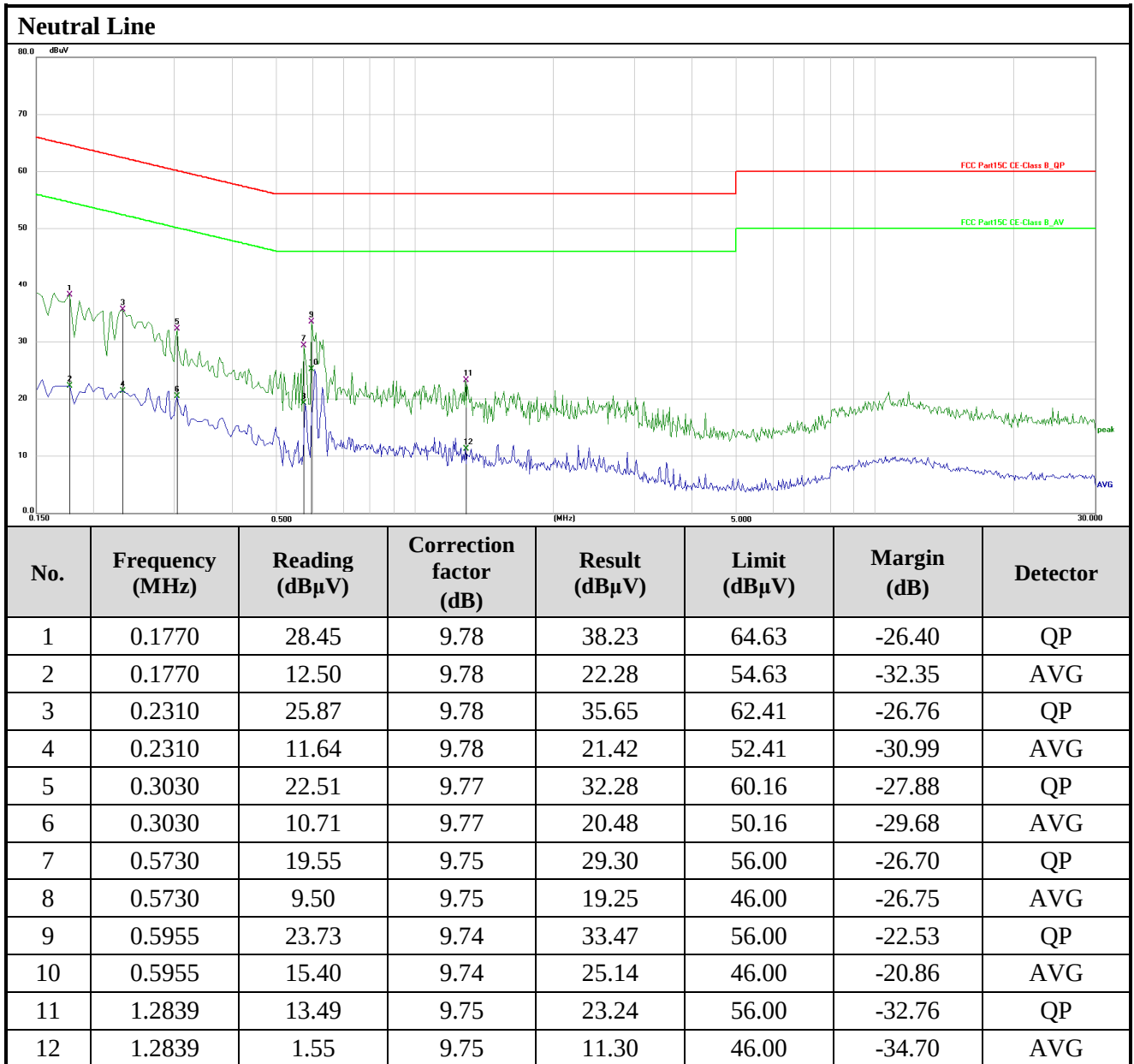


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Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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7.10 Antenna Requirement

Requirement

: **15.203 requirement:**

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-Gen Issue 5, Section 6.8 requirement:

According to RSS-Gen Issue 5, Section 6.8, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns.

EUT Antenna

: Antenna in the interior of the equipment and no consideration of replacement. The gain of the antenna is 3.7 dBi.

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8.0 External photo, Internal Photo and Test configuration Photo

The External Photo, Internal Photo and Test Configuration Photo associated with this report for the tested product are saved in separated pdf file listed in the following

File content	File name
External Photo	2BL9D-THERMALGLASS0 External photo.pdf
Internal Photo	2BL9D-THERMALGLASS0 Internal photo.pdf
Test Configuration Photo	2BL9D-THERMALGLASS0 Test setup photo (FCC PART 15C).pdf

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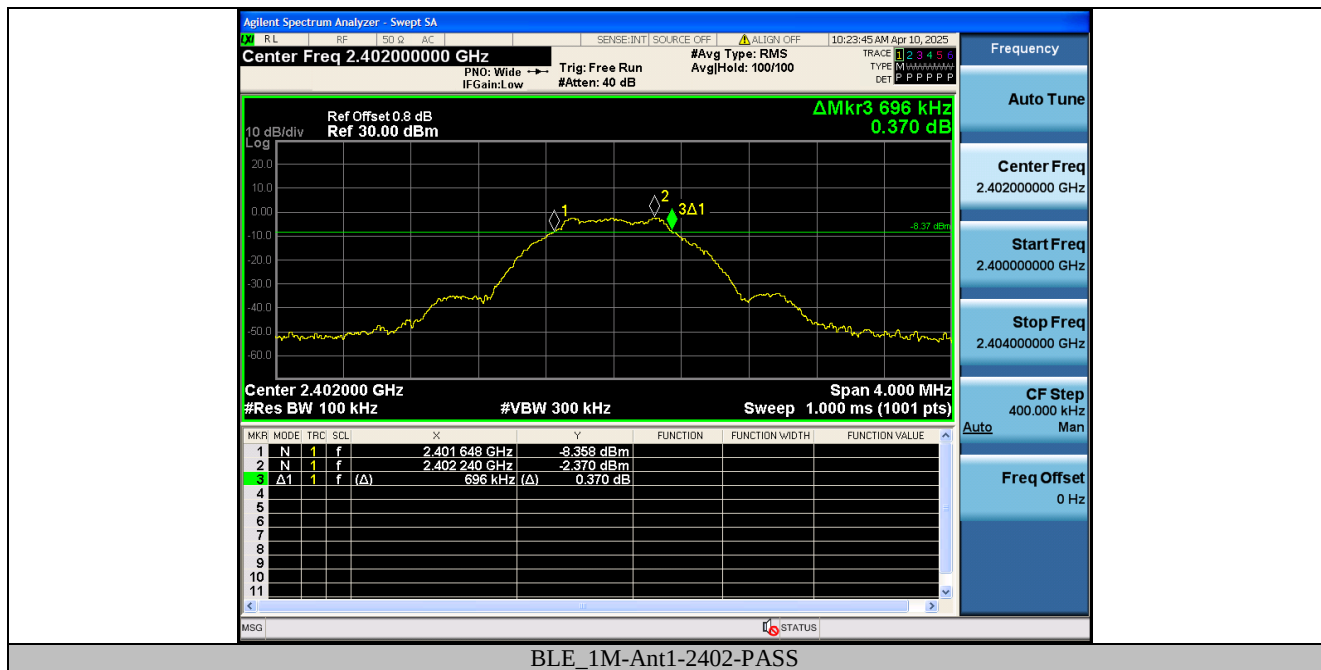
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Appendix A

Appendix A.1: 6dB Bandwidth

Test Graphs



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BLE_2M-Ant1-2480-PASS

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Appendix A.2: Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]
BLE_1M	Ant1	2402	1.0364	2401.5029	2402.5393
BLE_1M	Ant1	2440	1.0317	2439.5008	2440.5325
BLE_1M	Ant1	2480	1.0353	2479.4993	2480.5346
BLE_2M	Ant1	2402	2.0521	2401.0044	2403.0565
BLE_2M	Ant1	2440	2.0619	2438.9903	2441.0522
BLE_2M	Ant1	2480	2.0610	2478.9970	2481.0580

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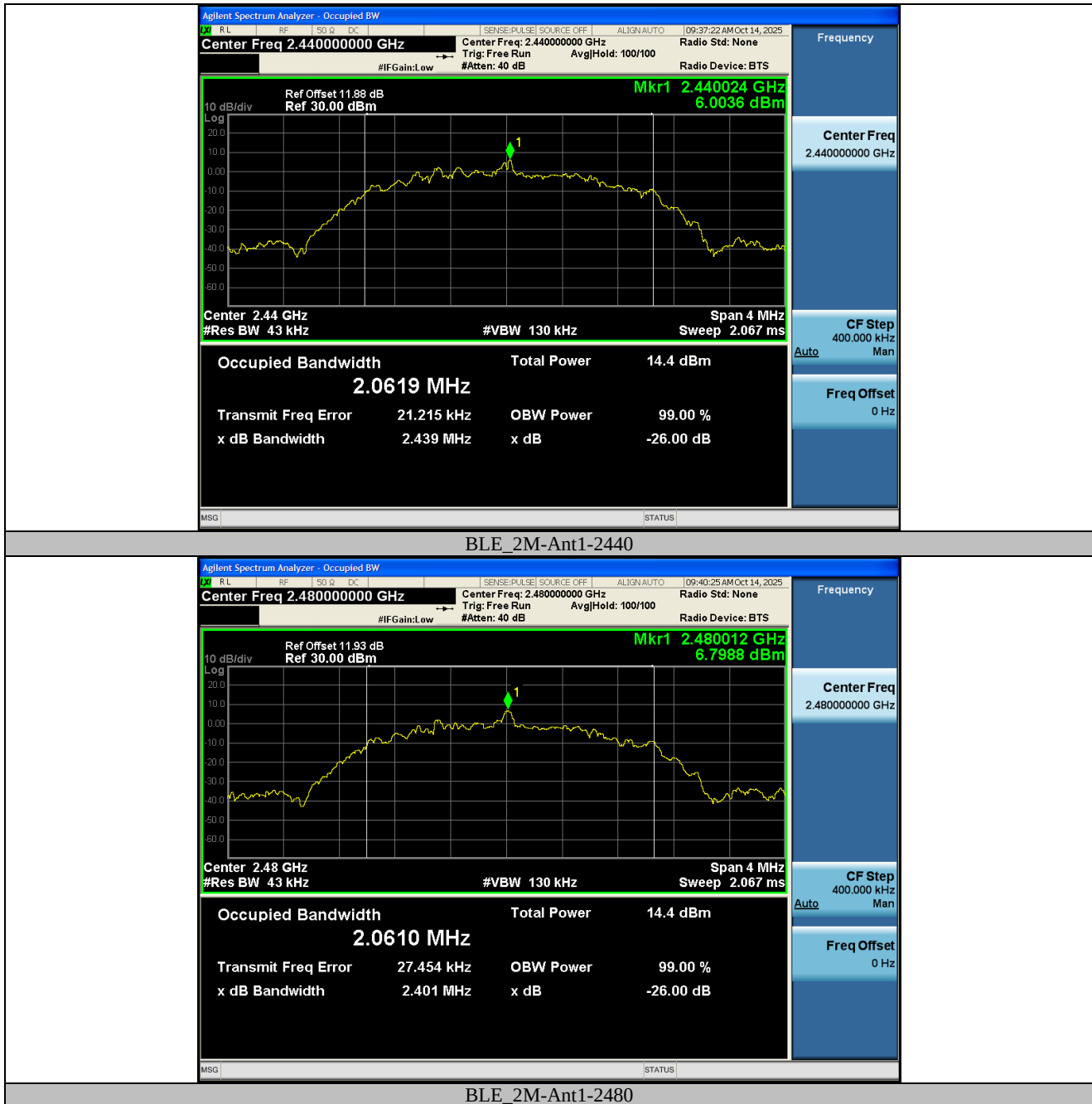


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Appendix A.3: Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.31	≤8.00	PASS
BLE_1M	Ant1	2440	-15.49	≤8.00	PASS
BLE_1M	Ant1	2480	-14.07	≤8.00	PASS
BLE_2M	Ant1	2402	-19.78	≤8.00	PASS
BLE_2M	Ant1	2440	-19.08	≤8.00	PASS
BLE_2M	Ant1	2480	-17.64	≤8.00	PASS

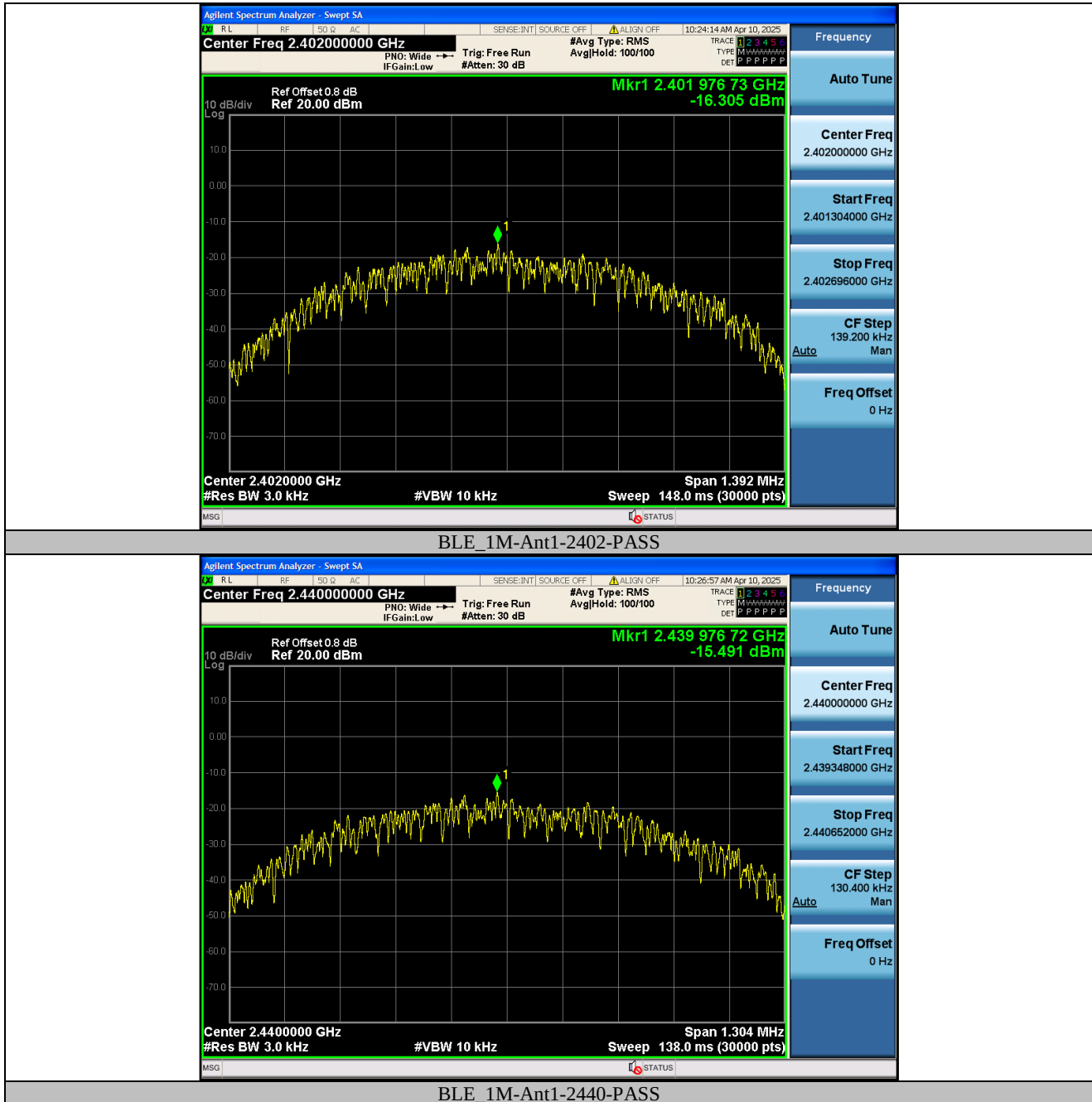
FCC ID: 2BL9D-THERMALGLASS0
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Test Graphs

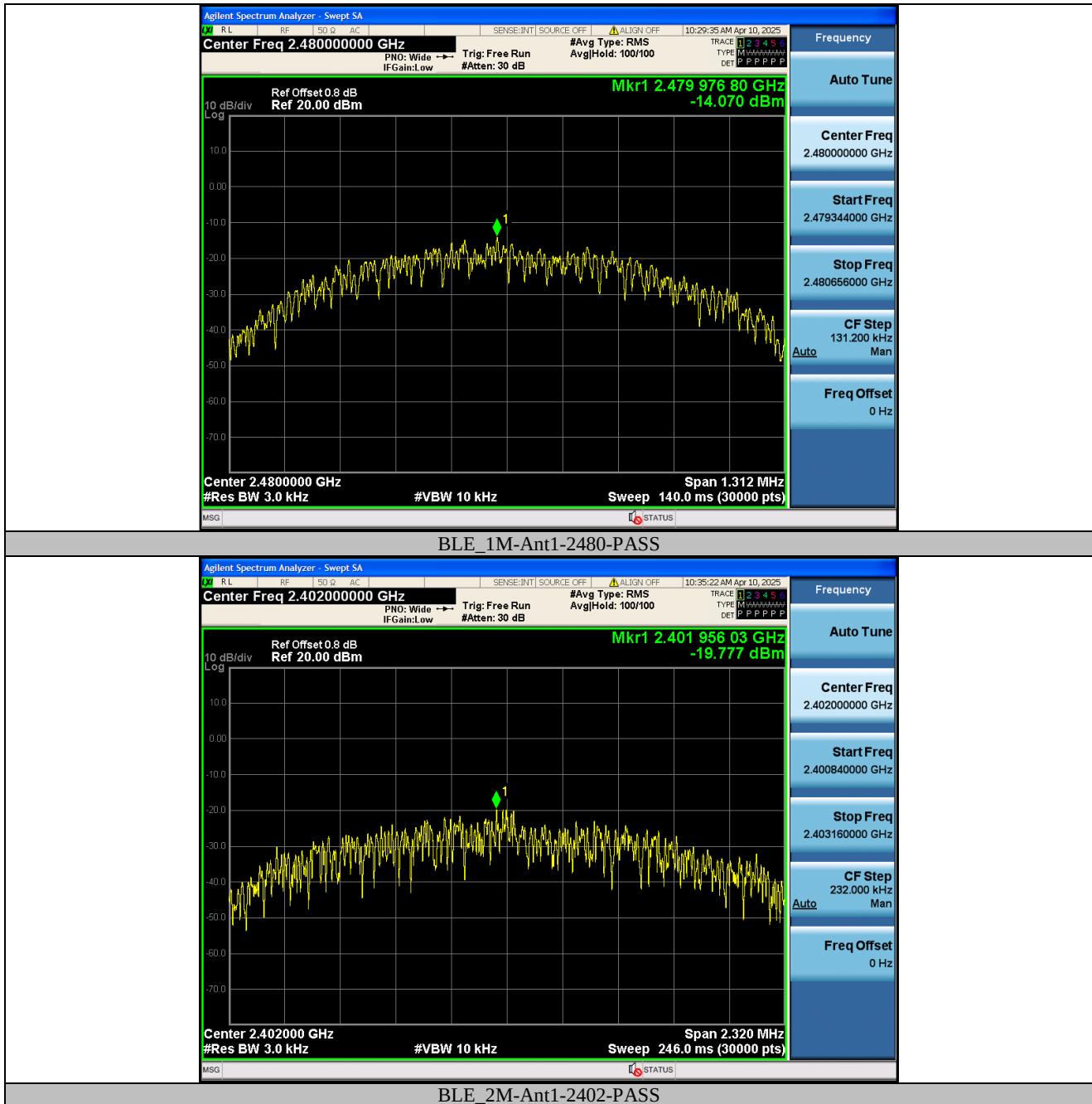


FCC ID: 2BL9D-THERMALGLASS0
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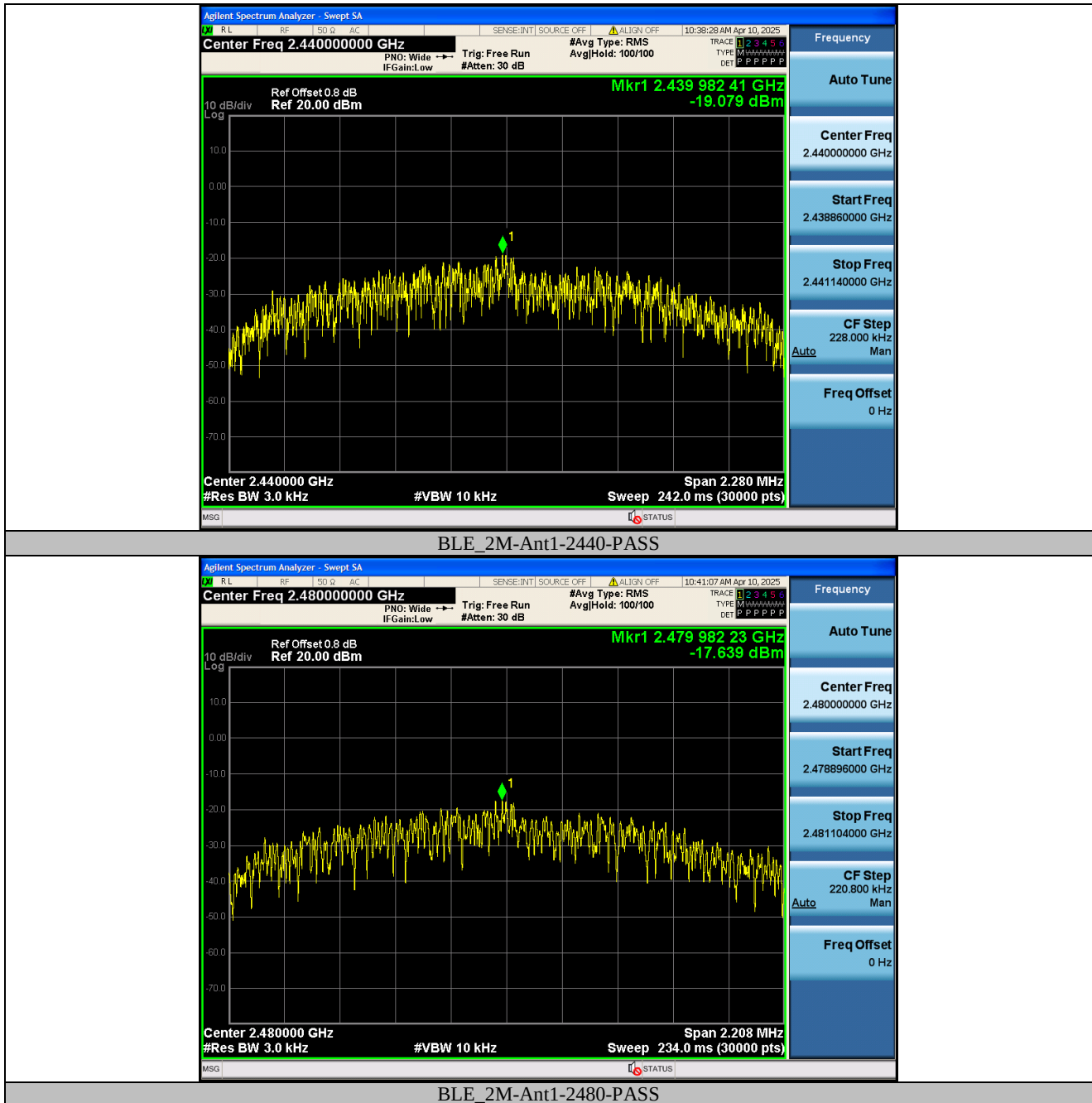


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Appendix A.4: Band edge measurements Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.61	-55.7	≤ -21.61	PASS
BLE_1M	Ant1	High	2480	0.02	-57.22	≤ -19.98	PASS
BLE_2M	Ant1	Low	2402	-2.09	-53.76	≤ -22.09	PASS
BLE_2M	Ant1	High	2480	-0.55	-58.22	≤ -20.55	PASS

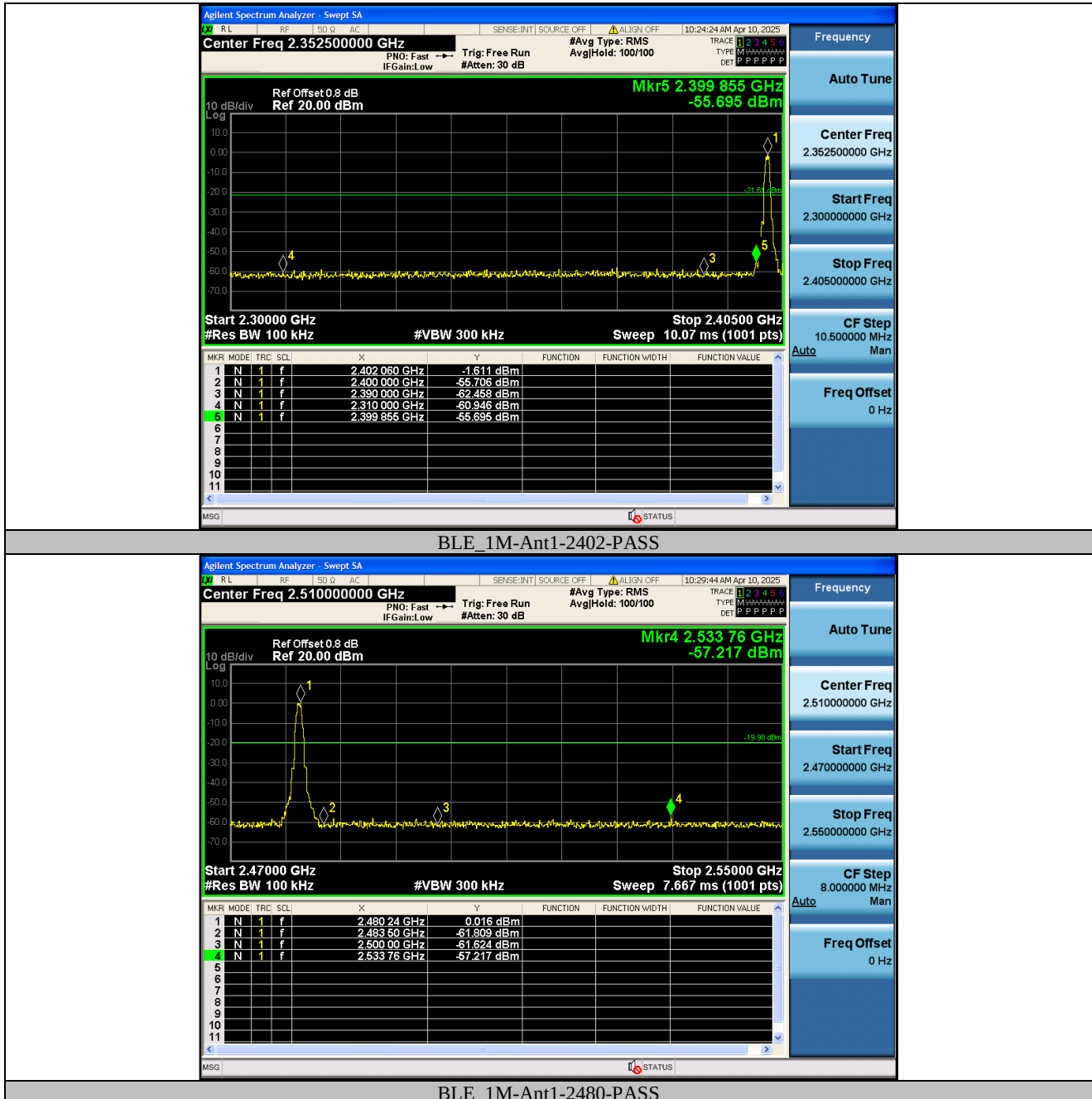
FCC ID: 2BL9D-THERMALGLASS0
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Test Graphs

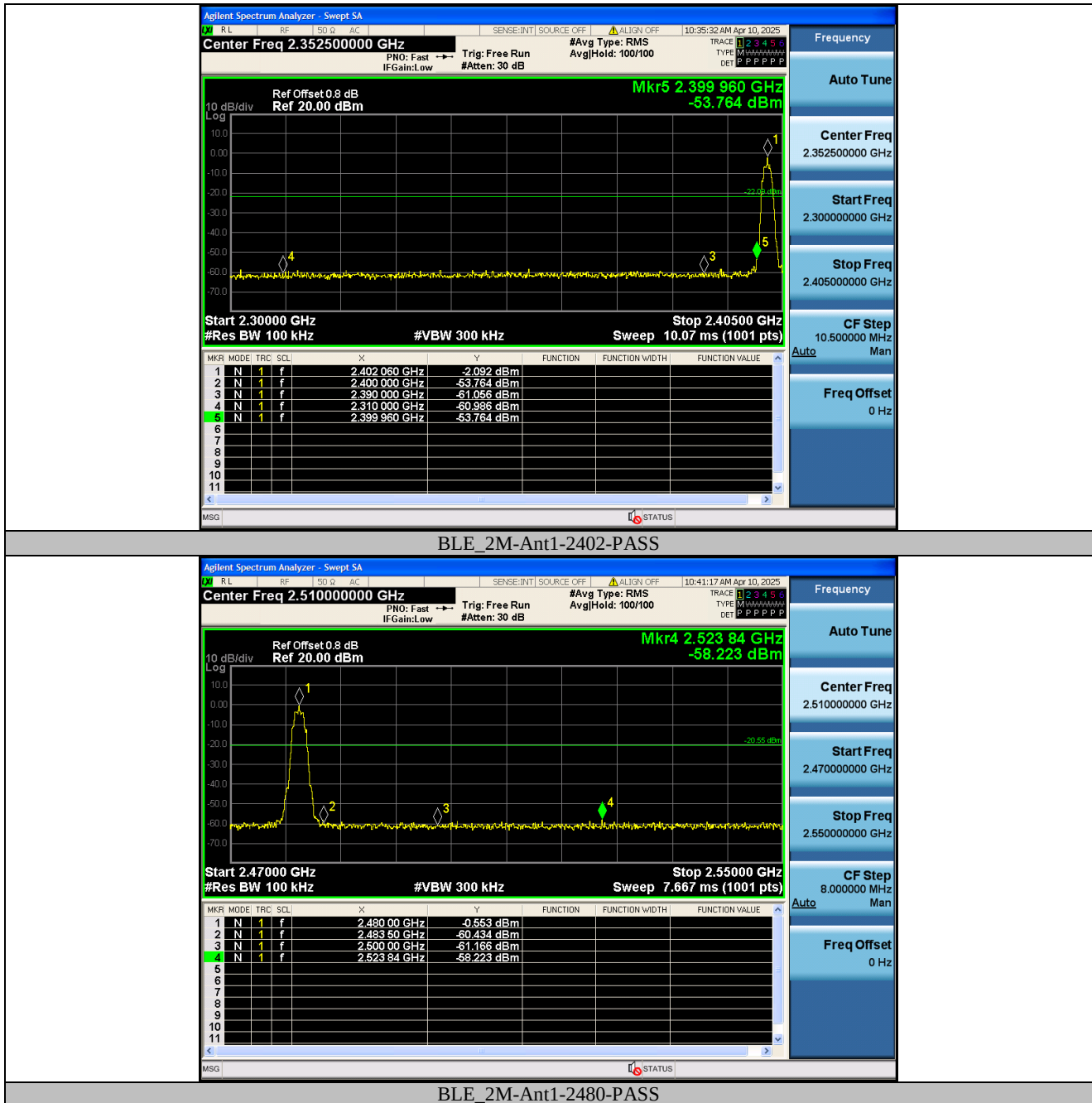


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Appendix A.5: Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-1.77	-70.03	≤-21.77	PASS
BLE_1M	Ant1	2402	1000~26500	-1.77	-57.89	≤-21.77	PASS
BLE_1M	Ant1	2440	30~1000	-1.03	-68.44	≤-21.03	PASS
BLE_1M	Ant1	2440	1000~26500	-1.03	-58.18	≤-21.03	PASS
BLE_1M	Ant1	2480	30~1000	0.41	-69.16	≤-19.59	PASS
BLE_1M	Ant1	2480	1000~26500	0.41	-57.38	≤-19.59	PASS
BLE_2M	Ant1	2402	30~1000	-1.93	-69.85	≤-21.93	PASS
BLE_2M	Ant1	2402	1000~26500	-1.93	-57.96	≤-21.93	PASS
BLE_2M	Ant1	2440	30~1000	-1.11	-69.73	≤-21.11	PASS
BLE_2M	Ant1	2440	1000~26500	-1.11	-57.53	≤-21.11	PASS
BLE_2M	Ant1	2480	30~1000	0.34	-69.17	≤-19.66	PASS
BLE_2M	Ant1	2480	1000~26500	0.34	-57.93	≤-19.66	PASS

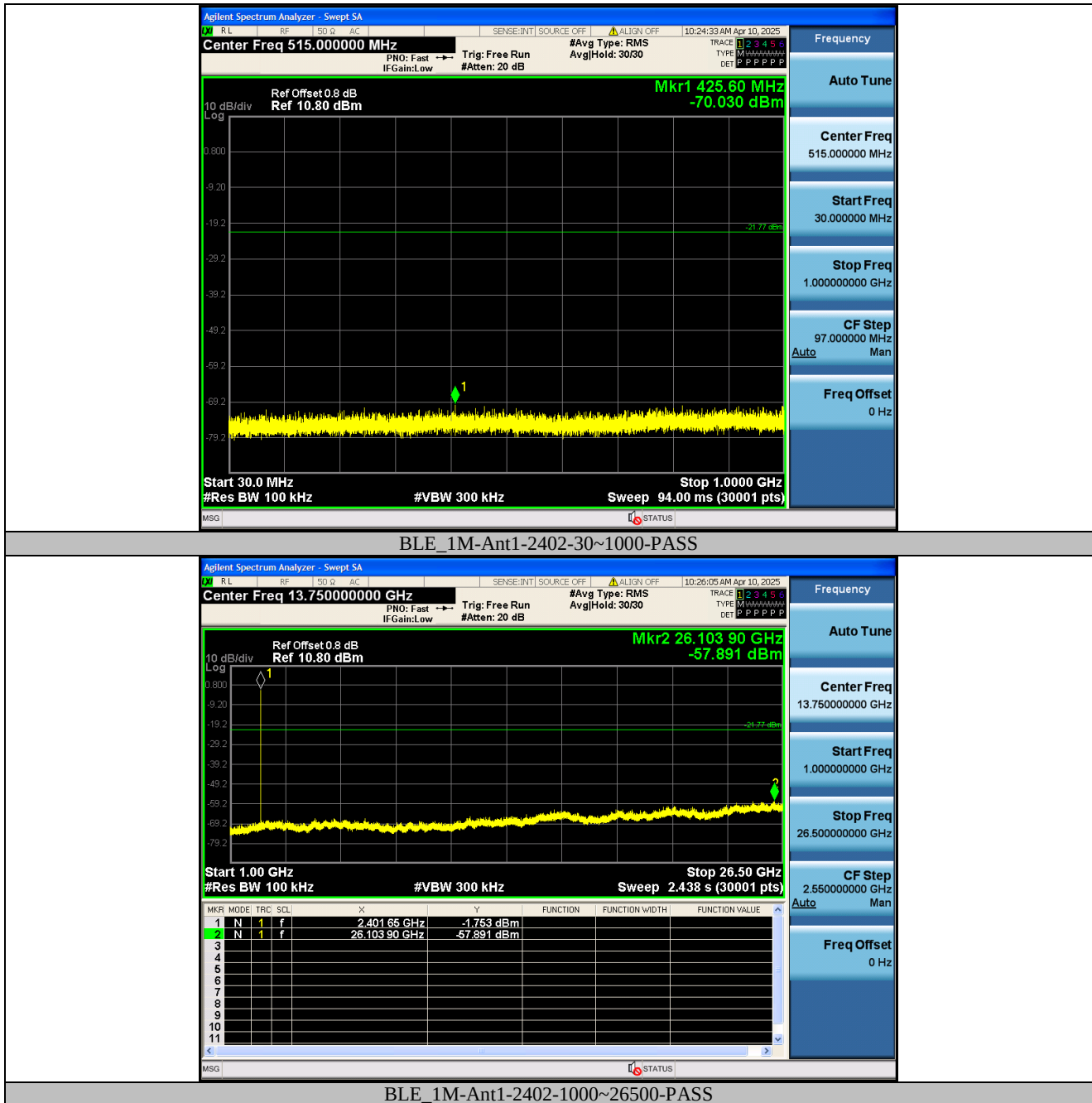
FCC ID: 2BL9D-THERMALGLASS0
IC: 34837-TGEXPLORER1

TEST REPORT

Report No. : A20043334(8)

Date : 2025-12-29

Test Graphs

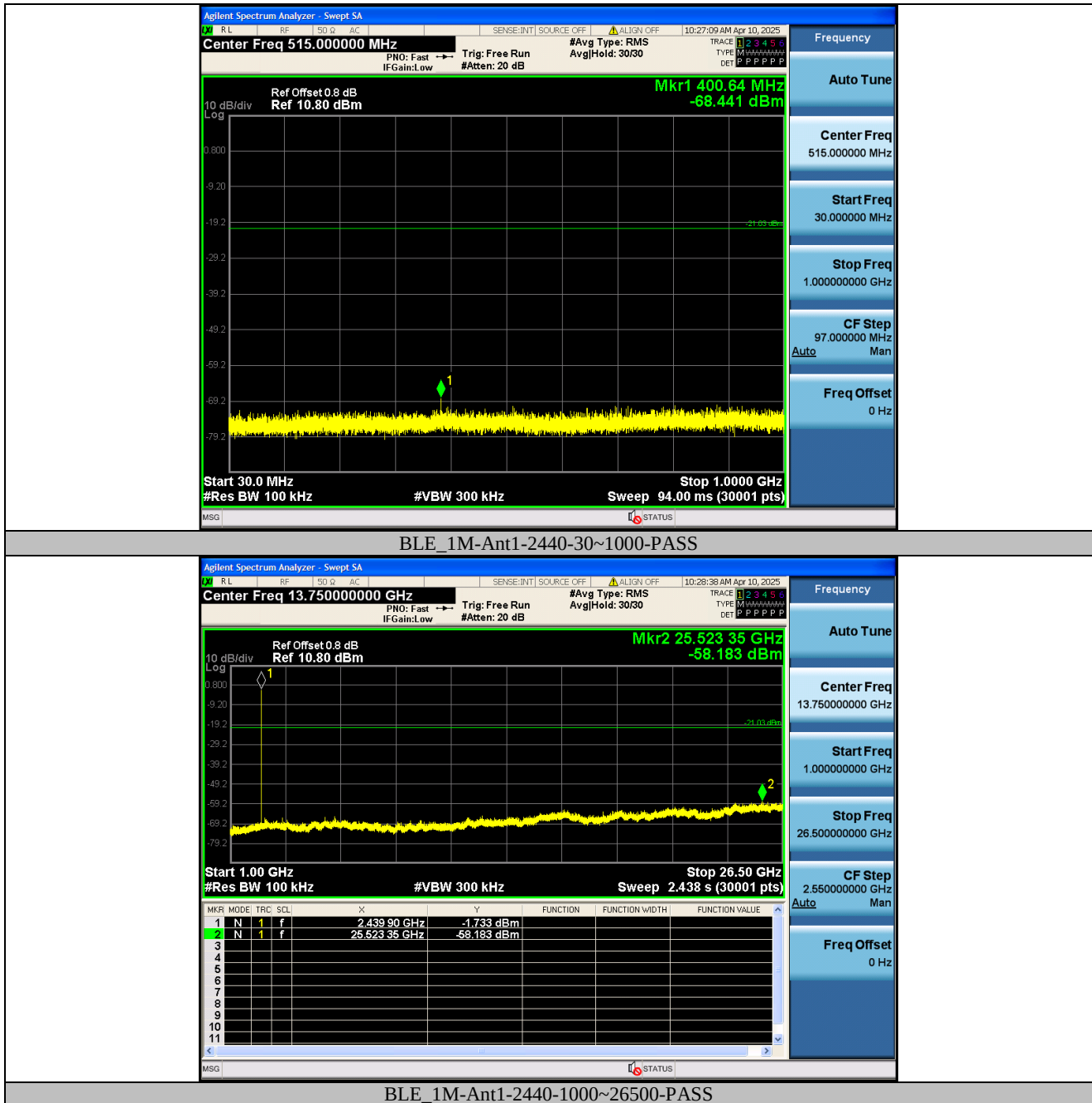


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IC: 34837-TGEXPLORER1

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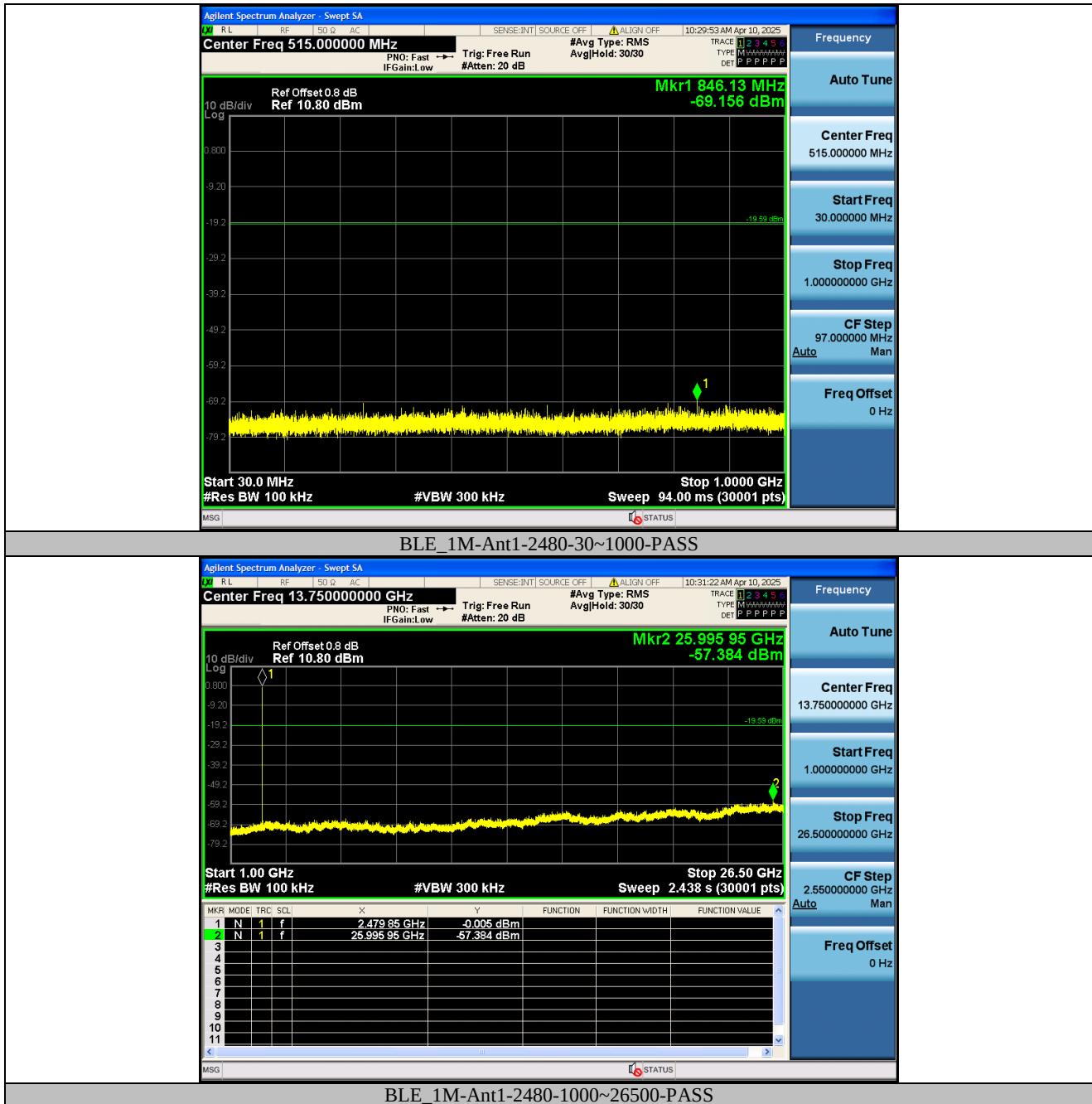


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IC: 34837-TGEXPLORER1

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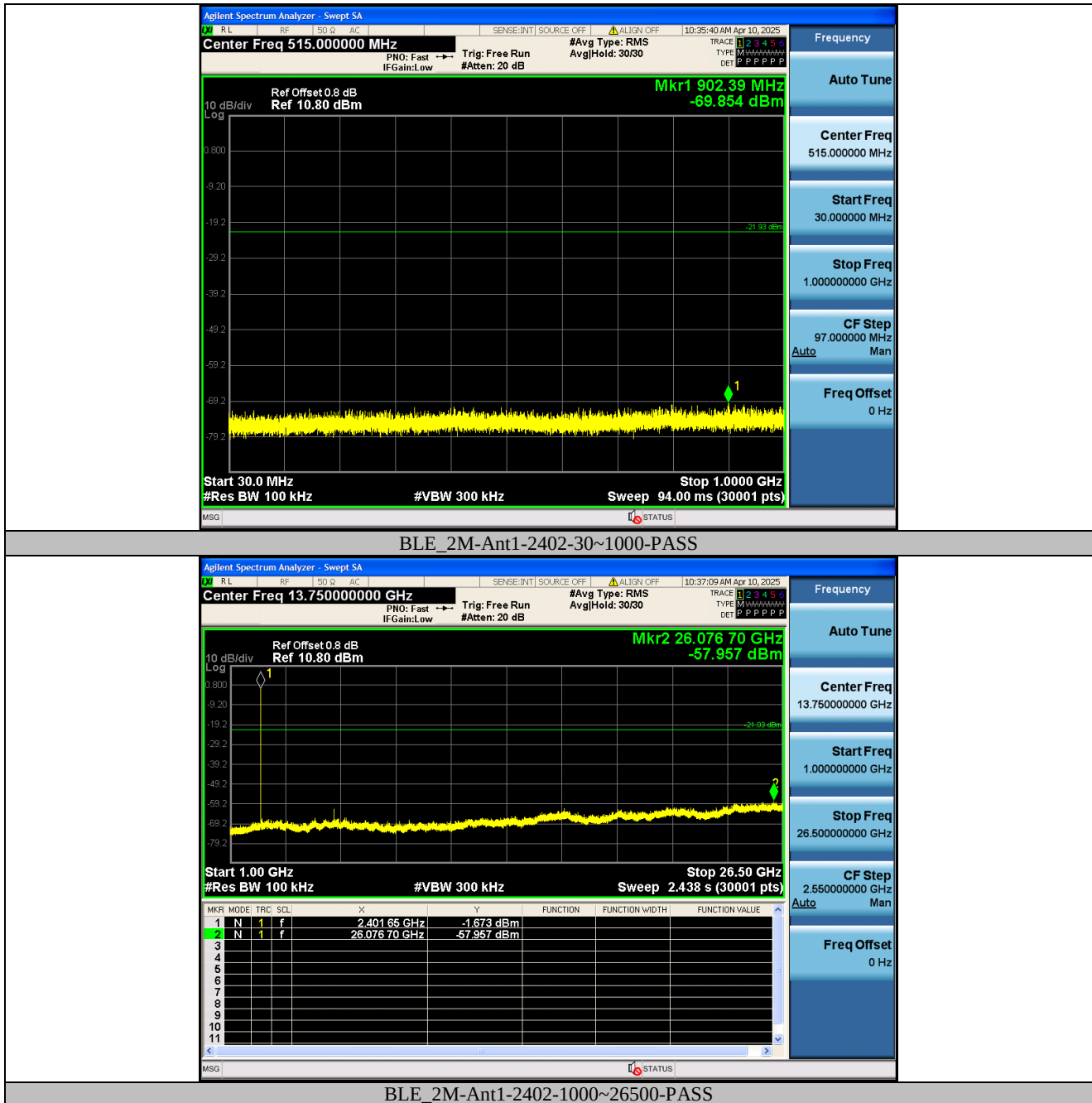


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IC: 34837-TGEXPLORER1

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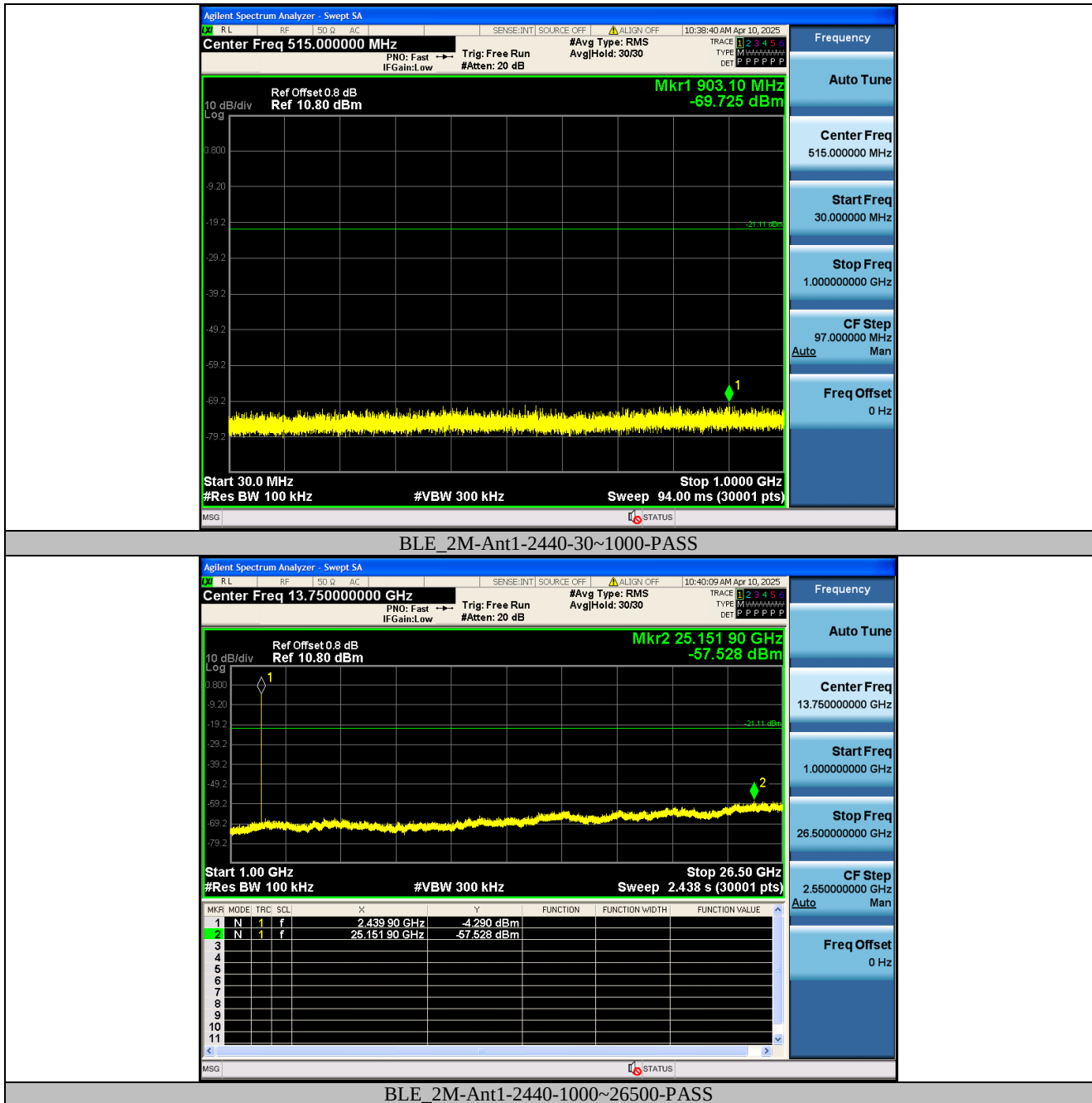
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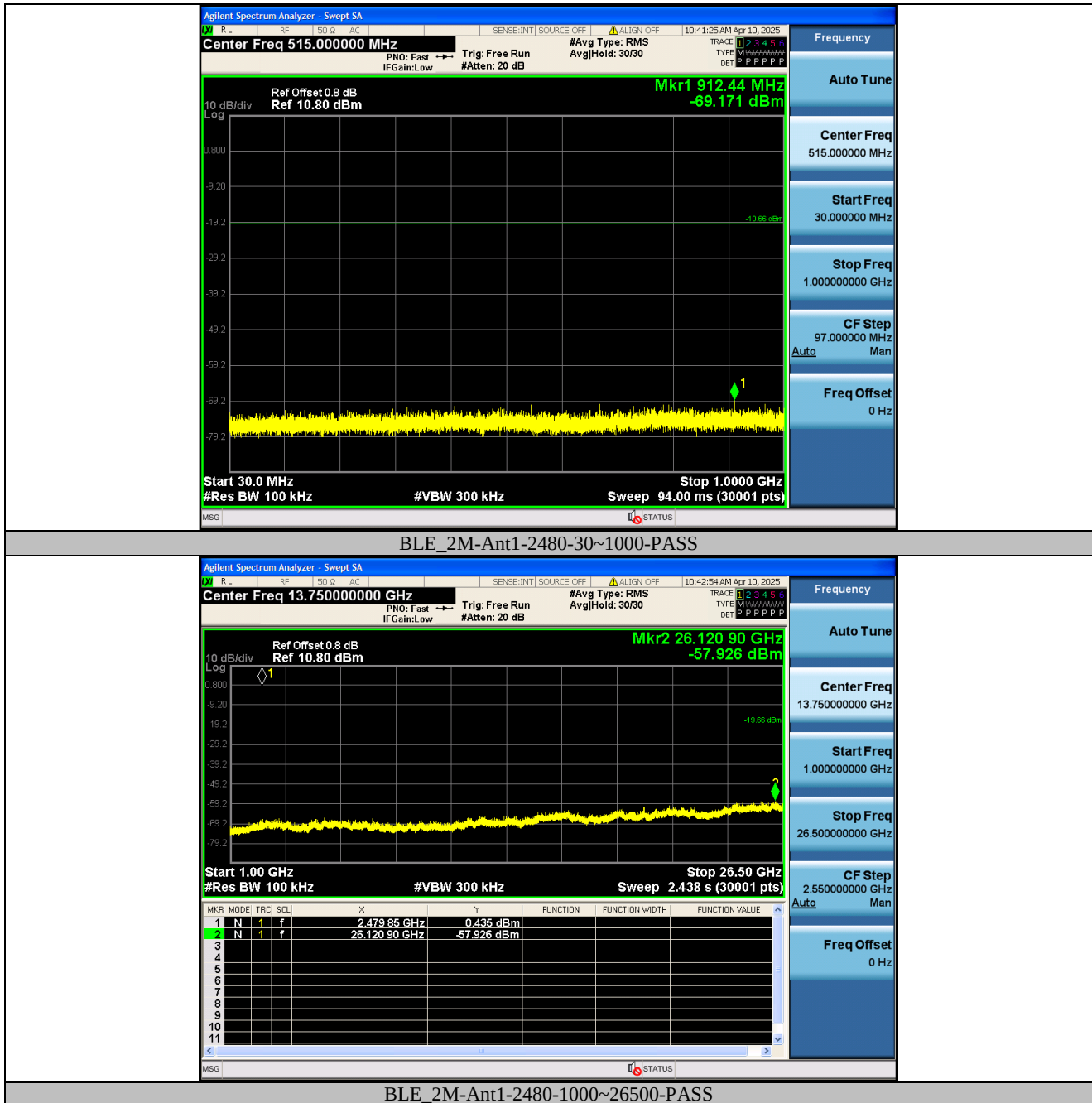


FCC ID: 2BL9D-THERMALGLASS0
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***** End of Report *****

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