



TEST REPORT

Report No. : A20011318(5) Date : 2025-04-11

Application No. : L1026373(0)

Applicant : Holoindustry Kft.
Sumegvar koz9.Budapest, Hungary

Sample Description : Mixed reality goggles

Model No. : ThermalGlass Explorer

Date Received : 2025-03-10

Test Period : 2025-03-11 to 2025-04-10

Test Requested : FCC Certification for FCC Part 15, subpart C

Test Method : 47 CFR Part 15 (10-1-18 Edition),
ANSI C63.10 – 2013,
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.

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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CMA Industrial Development Foundation Limited
Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.



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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)	N/A	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013 Clause 6.2	PASS
Conducted Peak Output Power	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013 Clause 11.9.1.3	PASS
6dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013 Clause 11.8.1	PASS
Power Spectral Density	FCC 47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013 Clause 11.10.2	PASS
Conducted Out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013 Clause 11.11	PASS
Radiated Spurious Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013 Clause 11.11 & Clause 11.12	PASS
Band Edge Measurements (Radiated)	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013 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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Document name: FCC/ISED - Document Ref No: RT-EL-EMC-048 - Issue Date: 13 Mar 2019 - Edition: 2

CMA Industrial Development Foundation Limited

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1 Product Information

1.1 General Information

Sample Description : Mixed reality goggles
Model No. : ThermalGlass Explorer

Primary function : 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
Electric Accessories sold with : Nil

Interconnection cable : USB Type-C (HHS 502248)
associated sold with

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 : FPCB Type
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 5.0 (BLE)
Simplex or Duplex : Simplex
Maximum Peak Power : 0.97 dBm
Normal Test Voltage : DC 3.7 V

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1.3 Associated Electric Accessories Information

N/A

1.4 Others Accessories

Battery

Model No.: : C936549500P
Battery Type: : Lithium-ion Battery
Rated Voltage: : DC 3.87 V
Limited Charge Voltage: : DC 4.45 V
Rated Capacity: : 4900 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 : ThermalGlass Explorer
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: HK004)

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	ESCS30	100001	29 Mar 2025	1 Year
				27 Mar 2026	
Spectrum Analyzer	R&S	FSV40	100964	10 Sep 2025	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSP30	100628	26 Mar 2025	1 Year
				27 Mar 2026	
Broadband Antenna	Schaffner	CBL6112B	2692	27 Mar 2025	2 Years
				27 Mar 2026	
Loop Antenna	EMCO	6502	00056620	25 Jan 2026	2 Years
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-531	21 Dec 2026	2 Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9718	9718-119	21 Dec 2026	2 Years
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170442	01 Aug 2026	2 Years
Broadband Pre-Amplifier	Schwarzbeck	BBV 9719	9719-010	01 Aug 2026	2 Years
Coaxial Cable	Schaffner	RG 213/U	N/A	16 May 2025	1 Year
Coaxial Cable	Suhner	RG 214/U	N/A	16 May 2025	1 Year
Coaxial Cable	Suhner	Sucoflex_104	N/A	21 Dec 2025	1 Year
LISN	Rohde & Schwarz	ENV216	101323	22 Jan 2026	1 Year
Coaxial Cable	Tyco Electronics	RG 58C/U	N/A	22 Oct 2025	1 Year
Rohde & Schwarz TS8997 Testing System					
Spectrum Analyzer	Rohde & Schwarz	FSV 40	101190	05 Dec 2025	1 Year

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OSP	Rohde & Schwarz	OSP	OSP-B157W	24 Apr 2025	1Year
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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)	4.59dB
30MHz ~ 200MHz (Vertical)	4.49dB
200MHz ~1000MHz (Horizontal)	4.94dB
200MHz ~1000MHz (Vertical)	4.97dB
1GHz ~6GHz	4.52dB
6GHz ~18GHz	4.58dB
18GHz~40GHz	4.66dB

Line-conducted emissions

Frequency	Uncertainty (U_{lab})
150kHz~30MHz	2.80dB



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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

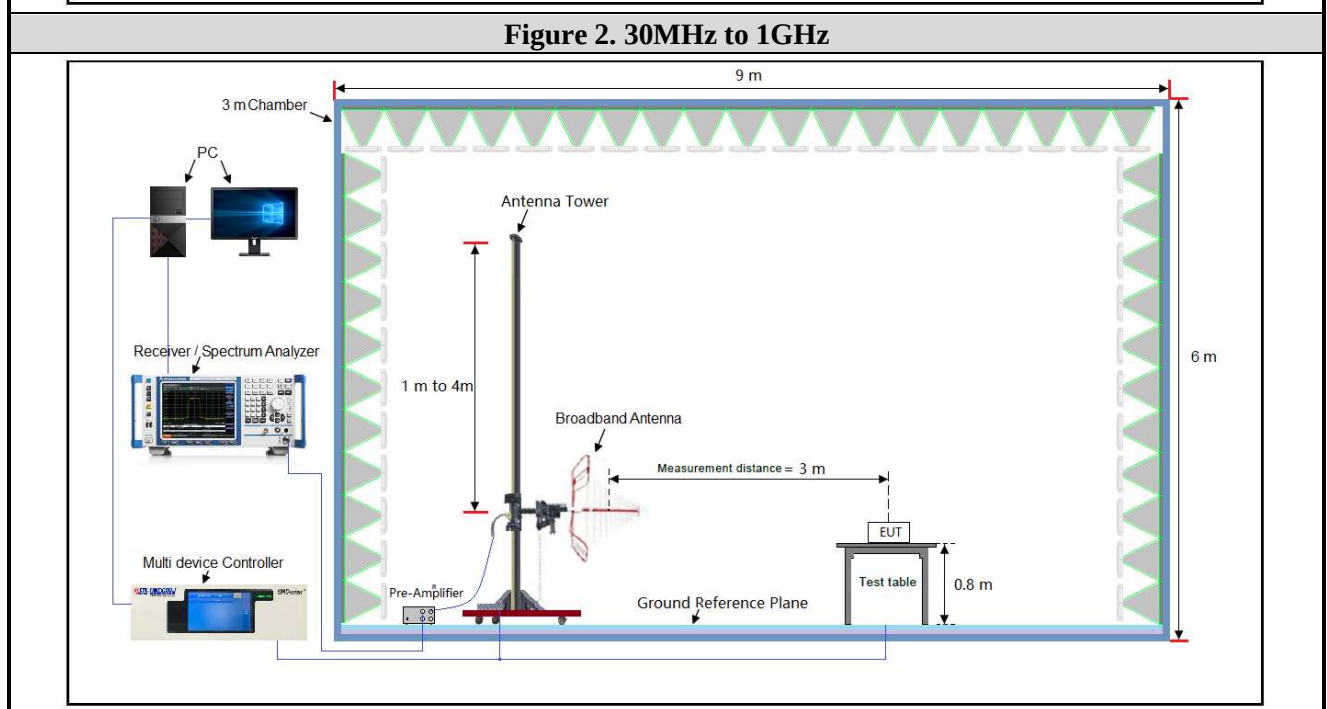
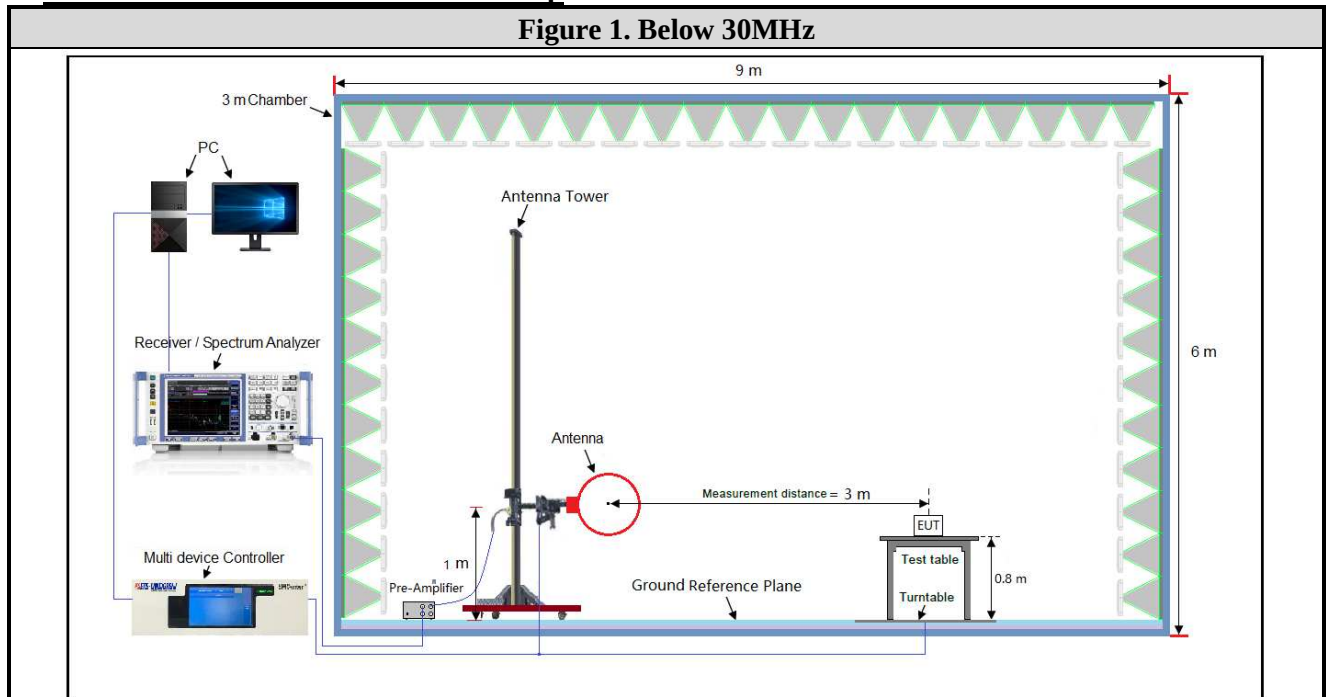
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6.4 Test setup

6.4.1 For Radiated Emissions test setup

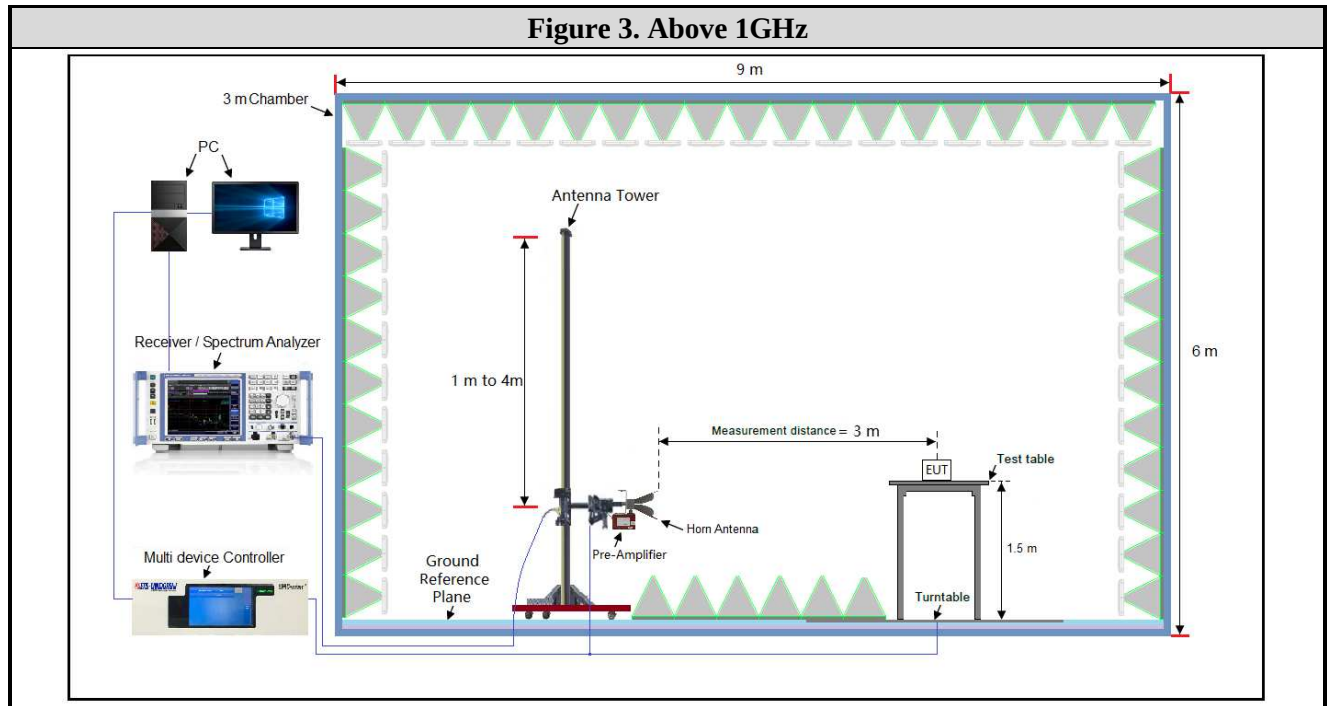


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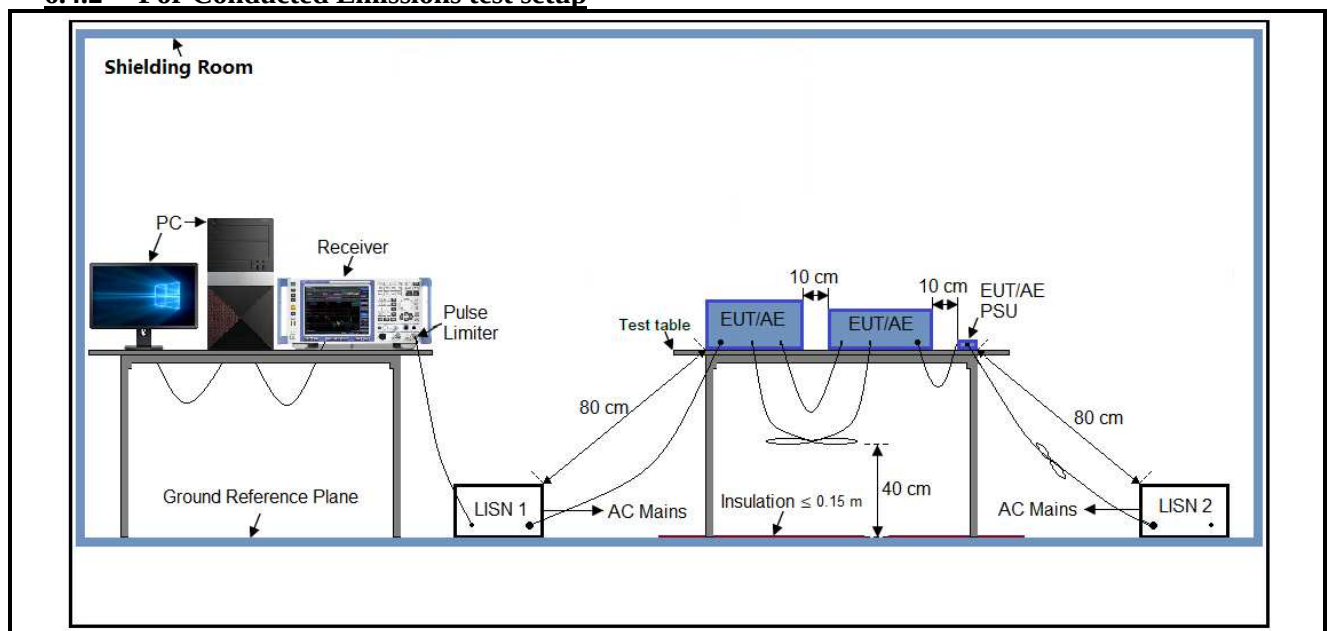
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6.4.2 For Conducted Emissions test setup

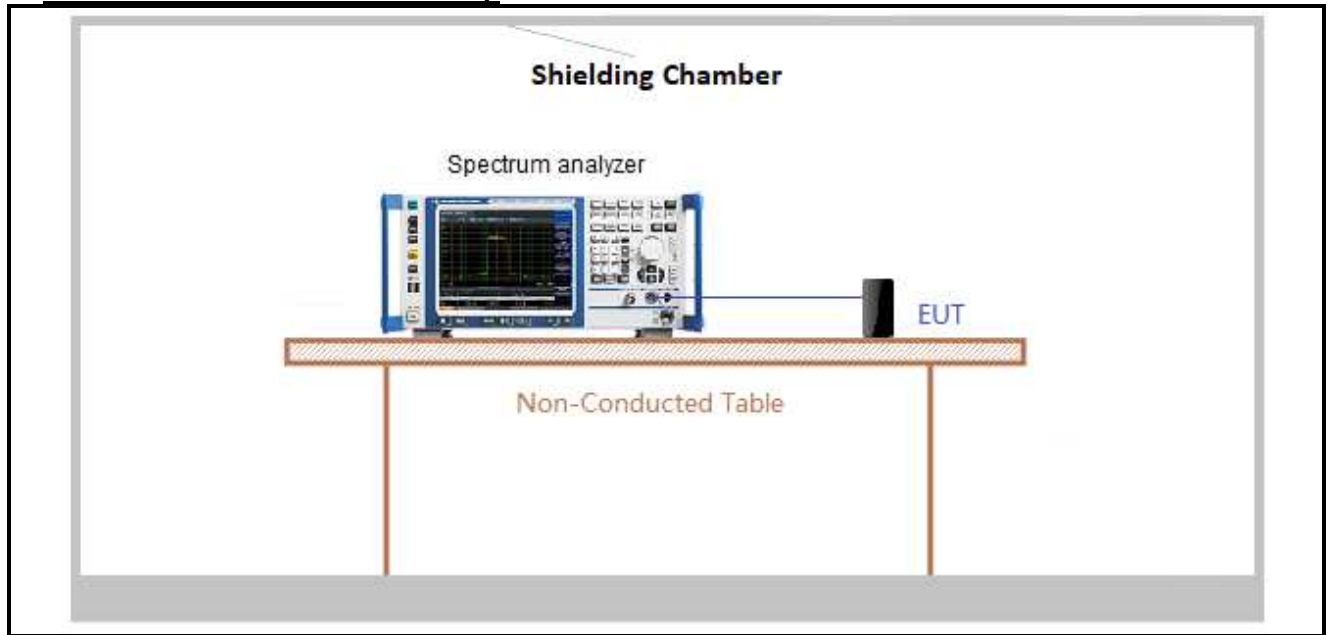


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6.4.3 For Conducted RF test setup



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 : 23.4°C
Test Voltage : DC 3.7 V
Humidity : 66.5%
Atmosphere Pressure : 100.2kPa

7.2 Duty Cycle

7.2.1 Measurement

Measuring procedure : ANSI C63.10-2013 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:

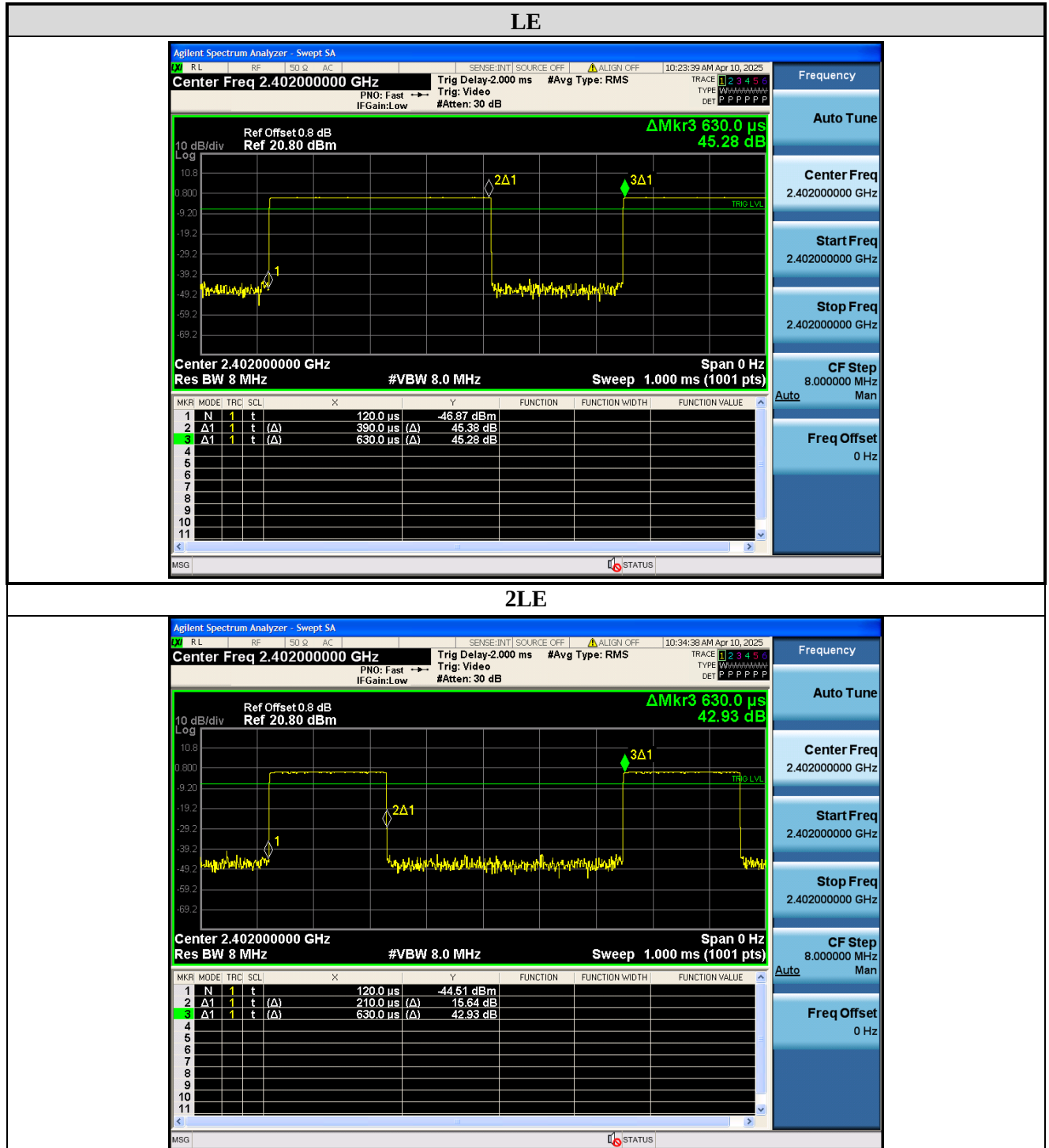
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

The test plot as follows

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7.3 Conducted Peak Output Power

7.3.1 Measurement

Requirement : FCC Part 15 §15.247(b) (3)
 Measuring procedure : ANSI C63.10-2013 Clause 11.9.1.3
 Limit: For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt
 Hopping mode : Disable
 Modulation tested : GFSK
 Channel tested for non-hopping mode : 2402MHz, 2440MHz, 2480MHz
 Additional measuring 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.
 Remark : Nil

7.3.2 Final Result

Mode	Channel	Frequency	Max. Peak Power		Peak Power Limit	Max. Avg. Power	Result
		(MHz)	(dBm)	(W)	(dBm)	(dBm)	
LE	0	2402	-1.34	0.0007	30	-3.61	Pass
	19	2440	-0.62	0.0009	30	-2.86	Pass
	39	2480	0.66	0.0012	30	-1.59	Pass
2LE	0	2402	-1.04	0.0008	30	-6.46	Pass
	19	2440	-0.26	0.0009	30	-5.70	Pass
	39	2480	0.97	0.0013	30	-4.32	Pass

Note: The antenna gain of 3.7 dBi less than 6dBi maximum permission antenna gain value based on 1 watt peak output power limit.

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7.4 6 dB Bandwidth

7.4.1 Measurement

Requirement : FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)
 Measuring procedure : ANSI C63.10-2013 Clause 11.8.1
 Limit : For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz
 Hopping mode : Disable
 Modulation tested : GFSK
 Channel tested for non-hopping mode : 2402MHz, 2440MHz, 2480MHz
 Additional measuring 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 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.

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.
 Remark : Nil

7.4.2 Final Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	0.5	PASS
BLE_1M	Ant1	2440	0.652	0.5	PASS
BLE_1M	Ant1	2480	0.656	0.5	PASS
BLE_2M	Ant1	2402	1.160	0.5	PASS
BLE_2M	Ant1	2440	1.140	0.5	PASS
BLE_2M	Ant1	2480	1.104	0.5	PASS

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



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7.2 Power Spectral Density

7.2.1 Measurement

- Requirement : FCC 47 CFR Part 15 Subpart C Section 15.247 (e)
Measuring procedure : ANSI C63.10-2013 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.
- Additional measuring 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.
Remark : Nil

7.2.2 Final Result

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

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7.3 Conducted Out Of Band Emission

7.3.1 Measurement

- | | | |
|--------------------------------|---|--|
| Requirement | : | FCC 47 CFR Part 15 Subpart C Section 15.247(d) |
| Measuring procedure | : | ANSI C63.10-2013 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. |
| Additional measuring procedure | : | <p>Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.</p> <p>Use the following spectrum analyzer settings:</p> <p>Step 1: Measurement Procedure REF</p> <ol style="list-style-type: none"> 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. j) Note that the channel found to contain the maximum PSD level can be used to establish the reference level. <p>Step 2: Measurement Procedure OOB</p> <ol style="list-style-type: none"> 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. <p>1. Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.</p> |
| Test Setup: | : | Refer to section 6.4.3 for details. |
| Remark | : | Nil |

7.3.2 Final Result

Remark: Detail test result and equipment setting refer to appendix A.4



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7.4 Radiated Spurious Emissions

7.4.1 Measurement

Requirement : FCC 47 CFR Part 15 Subpart C Section 15.205/15.209
Measuring procedure : ANSI C63.10-2013 Clause 11.11 & Clause 11.12
Receiver Setup : Refer to 6.4.2
Limit : Refer to 6.4.3

Limits

Additional measuring
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).

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- 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 it is worse case.

Repeat above procedures until all frequencies measured was complete.

Test Setup: : Refer to section 6.4.1 for details.
Remark : Nil

7.4.2 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

7.4.3 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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7.4.4 Final Result

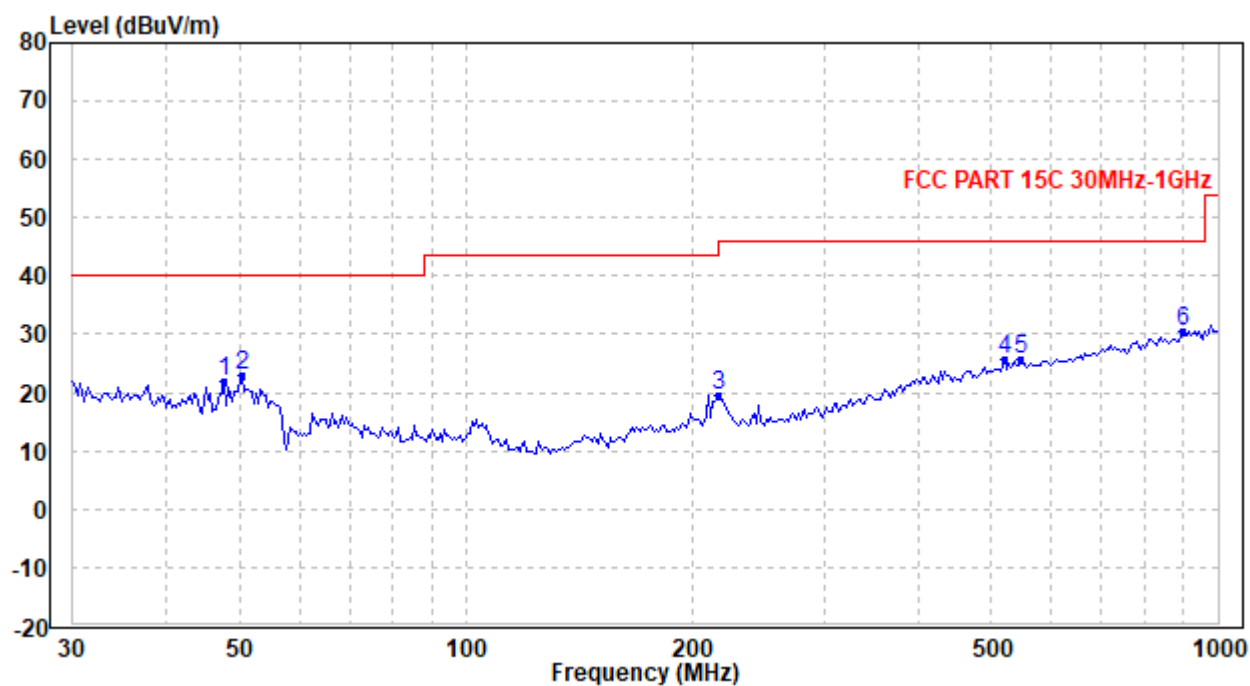
Radiated Emission Test Data (9 kHz ~ 30 MHz):

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



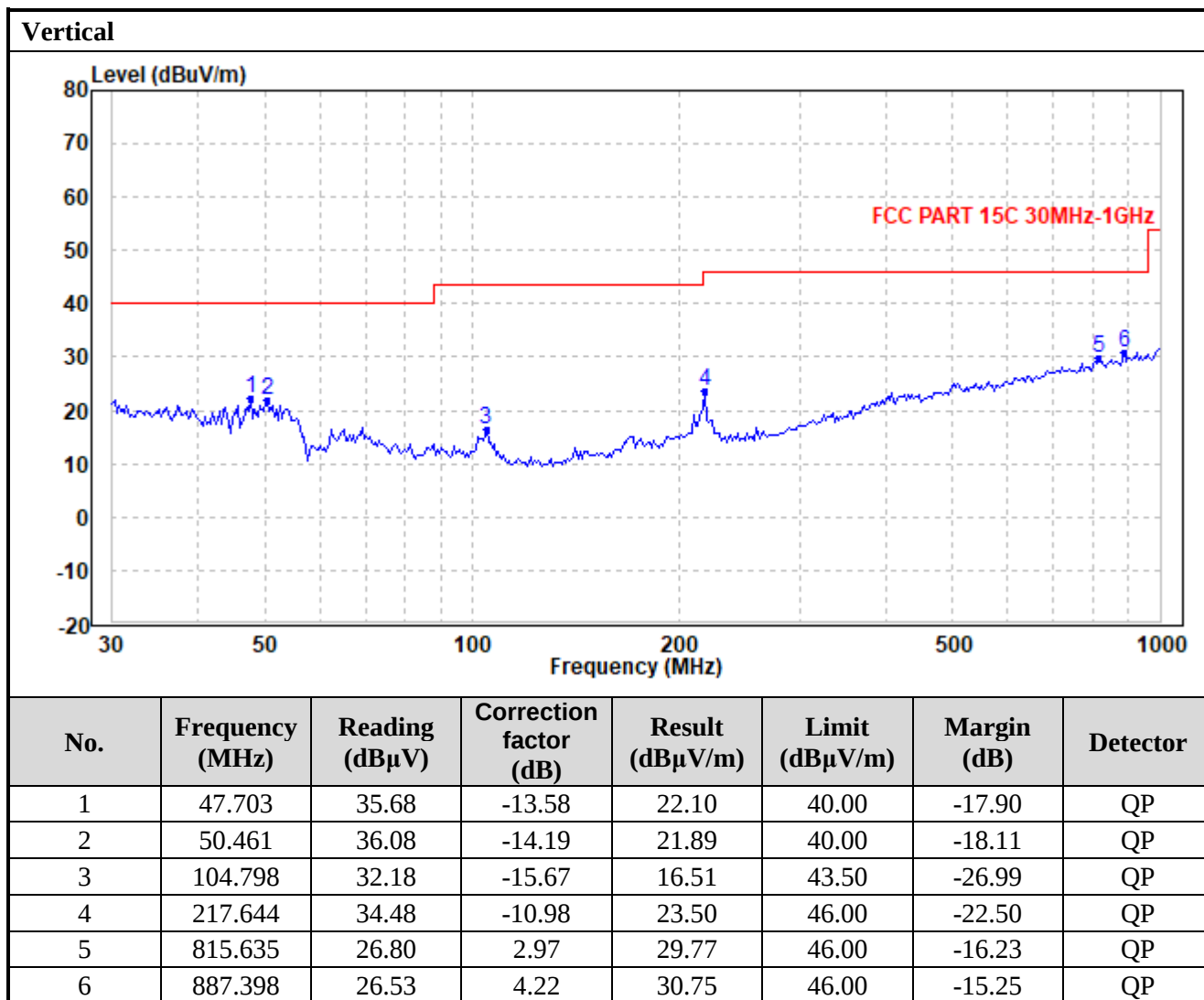
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	47.703	35.55	-13.58	21.97	40.00	-18.03	QP
2	50.461	37.09	-14.19	22.90	40.00	-17.10	QP
3	216.120	30.52	-10.98	19.54	46.00	-26.46	QP
4	520.208	27.54	-1.82	25.72	46.00	-20.28	QP
5	546.437	27.51	-1.75	25.76	46.00	-20.24	QP
6	899.958	26.34	4.33	30.67	46.00	-15.33	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	34.91	-2.08	32.83	54.00	-21.17	Average	Horizontal
2	4804.000	46.51	-2.08	44.43	74.00	-29.57	Peak	Horizontal
3	7206.000	33.94	1.30	35.24	54.00	-18.76	Average	Horizontal
4	7206.000	47.31	1.30	48.61	74.00	-25.39	Peak	Horizontal
5	4804.000	34.97	-2.08	32.89	54.00	-21.11	Average	Vertical
6	4804.000	47.44	-2.08	45.36	74.00	-28.64	Peak	Vertical
7	7206.000	34.26	1.30	35.56	54.00	-18.44	Average	Vertical
8	7206.000	47.04	1.30	48.34	74.00	-25.66	Peak	Vertical
LE_ Middle Channel:								
1	4880.000	35.54	-2.05	33.49	54.00	-20.51	Average	Horizontal
2	4880.000	48.02	-2.05	45.97	74.00	-28.03	Peak	Horizontal
3	7320.000	34.88	1.31	36.19	54.00	-17.81	Average	Horizontal
4	7320.000	47.70	1.31	49.01	74.00	-24.99	Peak	Horizontal
5	4880.000	35.10	-2.05	33.05	54.00	-20.95	Average	Vertical
6	4880.000	47.50	-2.05	45.45	74.00	-28.55	Peak	Vertical
7	7320.000	34.23	1.31	35.54	54.00	-18.46	Average	Vertical
8	7320.000	45.97	1.31	47.28	74.00	-26.72	Peak	Vertical
LE_ Highest Channel:								
1	4960.000	34.26	-2.02	32.24	54.00	-21.76	Average	Horizontal
2	4960.000	46.86	-2.02	44.84	74.00	-29.16	Peak	Horizontal
3	7440.000	34.06	1.32	35.38	54.00	-18.62	Average	Horizontal
4	7440.000	46.45	1.32	47.77	74.00	-26.23	Peak	Horizontal
5	4960.000	34.45	-2.02	32.43	54.00	-21.57	Average	Vertical
6	4960.000	45.94	-2.02	43.92	74.00	-30.08	Peak	Vertical
7	7440.000	33.98	1.32	35.30	54.00	-18.70	Average	Vertical
8	7440.000	47.23	1.32	48.55	74.00	-25.45	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	34.92	-2.08	32.84	54.00	-21.16	Average	Horizontal
2	4804.000	46.52	-2.08	44.44	74.00	-29.56	Peak	Horizontal
3	7206.000	33.95	1.30	35.25	54.00	-18.75	Average	Horizontal
4	7206.000	47.32	1.30	48.62	74.00	-25.31	Peak	Horizontal
5	4804.000	34.97	-2.08	32.91	54.00	-21.09	Average	Vertical
6	4804.000	47.45	-2.08	45.37	74.00	-28.63	Peak	Vertical
7	7206.000	34.27	1.30	35.57	54.00	-18.43	Average	Vertical
8	7206.000	47.04	1.30	48.36	74.00	-25.64	Peak	Vertical
2LE_ Middle Channel:								
1	4880.000	35.10	-2.05	33.05	54.00	-20.95	Average	Horizontal
2	4880.000	48.14	-2.05	46.09	74.00	-27.91	Peak	Horizontal
3	7320.000	34.09	1.31	35.40	54.00	-18.60	Average	Horizontal
4	7320.000	46.63	1.31	47.94	74.00	-26.06	Peak	Horizontal
5	4880.000	35.30	-2.05	33.25	54.00	-20.75	Average	Vertical
6	4880.000	46.81	-2.05	44.76	74.00	-29.24	Peak	Vertical
7	7320.000	34.21	1.31	35.52	54.00	-18.48	Average	Vertical
8	7320.000	46.15	1.31	47.46	74.00	-26.54	Peak	Vertical
2LE_ Highest Channel:								
1	4960.000	34.62	-2.02	32.60	54.00	-21.40	Average	Horizontal
2	4960.000	47.09	-2.02	45.07	74.00	-28.93	Peak	Horizontal
3	7440.000	34.15	1.32	35.47	54.00	-18.53	Average	Horizontal
4	7440.000	46.18	1.32	47.50	74.00	-26.50	Peak	Horizontal
5	4960.000	34.48	-2.02	32.46	54.00	-21.54	Average	Vertical
6	4960.000	45.98	-2.02	43.96	74.00	-30.04	Peak	Vertical
7	7440.000	33.98	1.32	35.30	54.00	-18.70	Average	Vertical
8	7440.000	47.22	1.32	48.54	74.00	-25.46	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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7.5 Band Edge Measurements (Radiated)

7.5.1 Measurement

Requirement : FCC 47 CFR Part 15 Subpart C Section 15.205/15.209
 Measuring procedure : ANSI C63.10-2013 Clause 11.13
 Limit : Refer to 7.5.2
 Additional measuring 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 7.4.1 for details.
 Remark : Since the modulation does not affect the dwell time, GFSK is selected as represented modulation.

6.5.2 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

Remarks: 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).

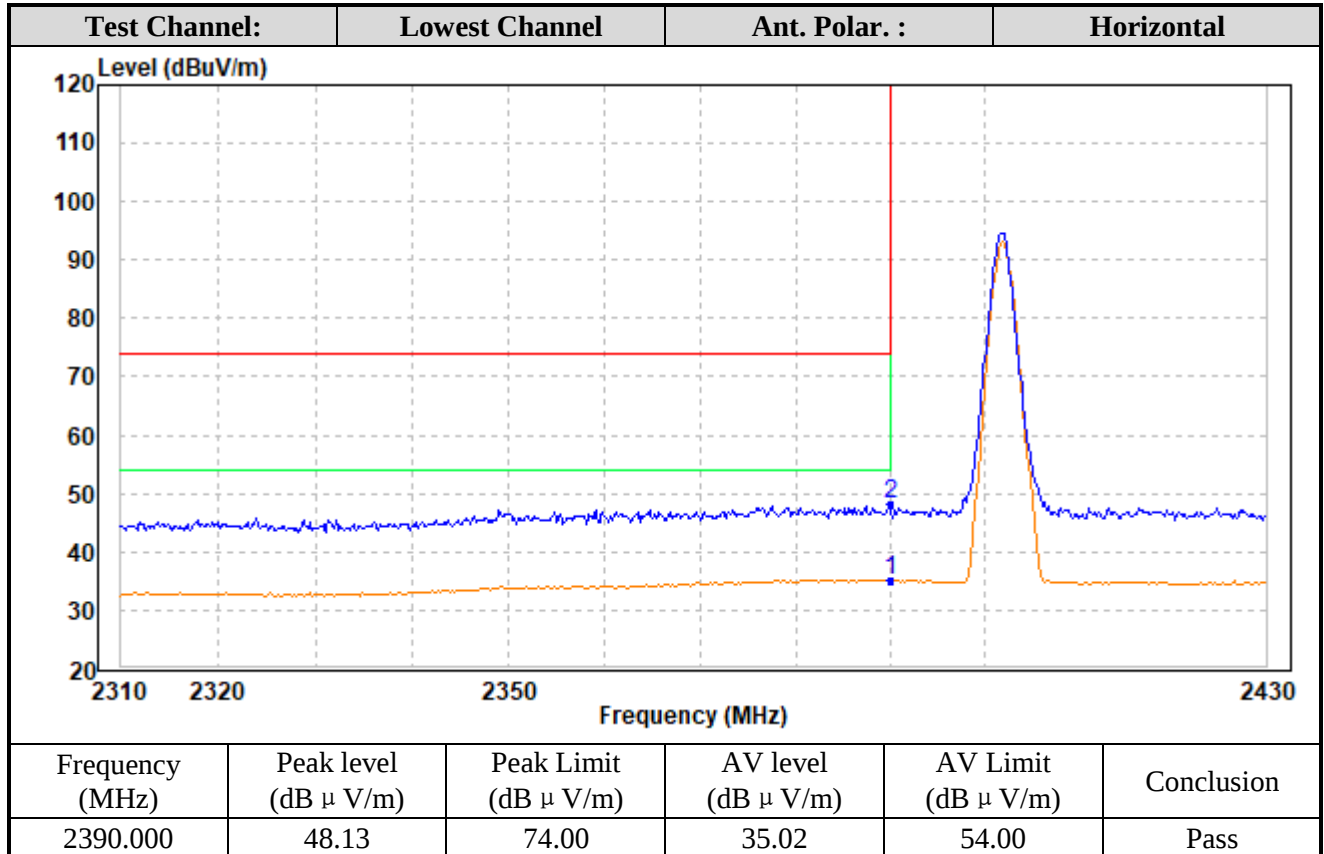
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7.5.3 Final Result

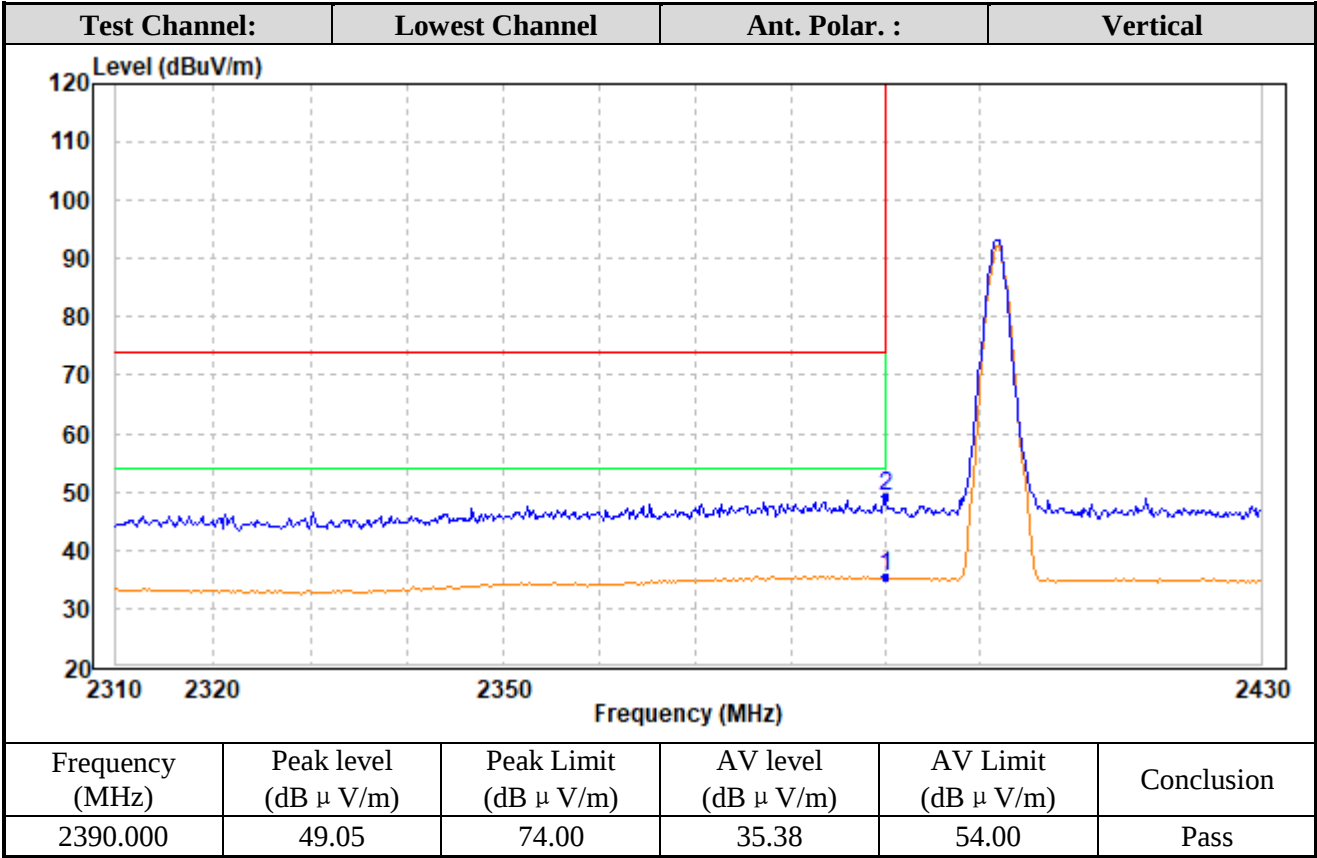
LE Mode:





TEST REPORT

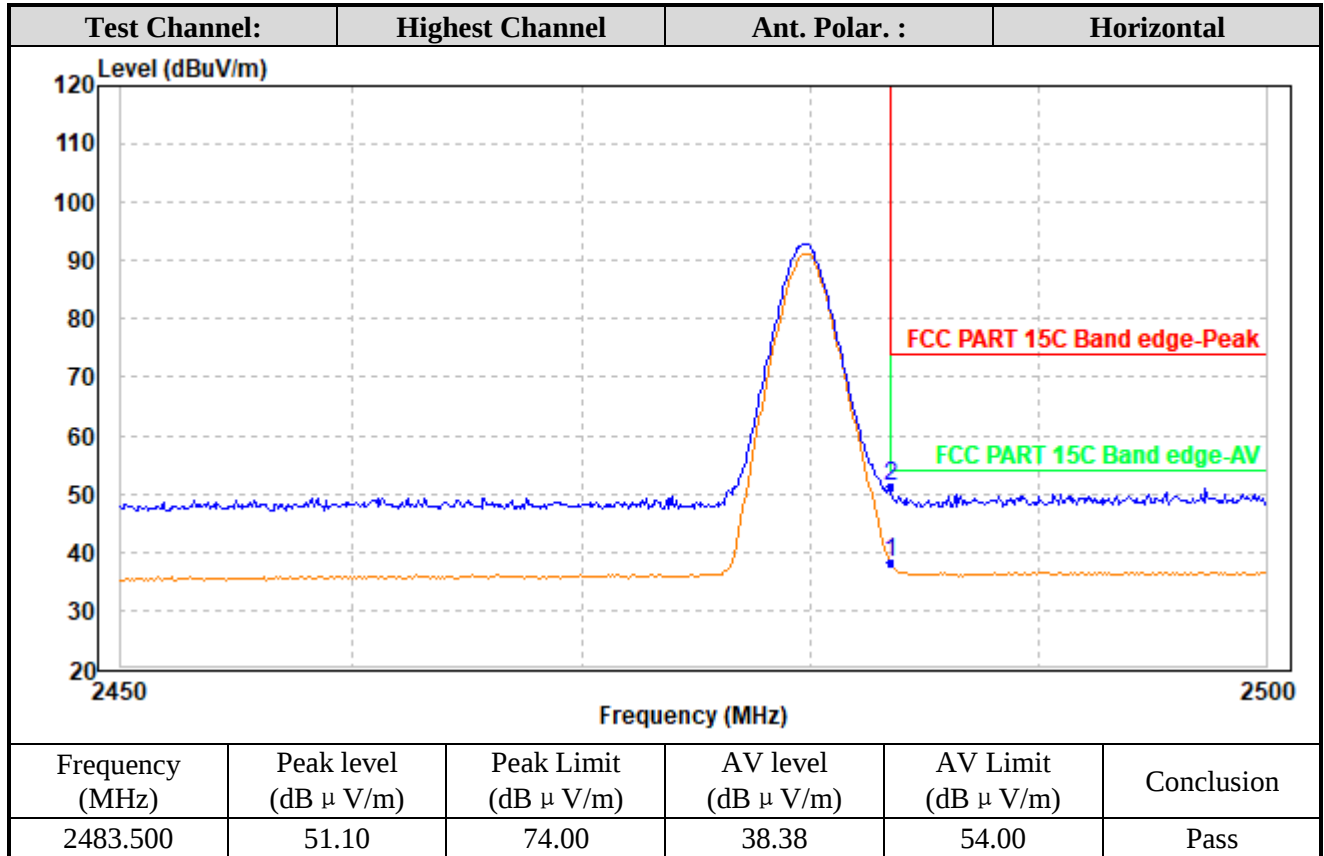
Report No. : A20011318(5) Date : 2025-04-11



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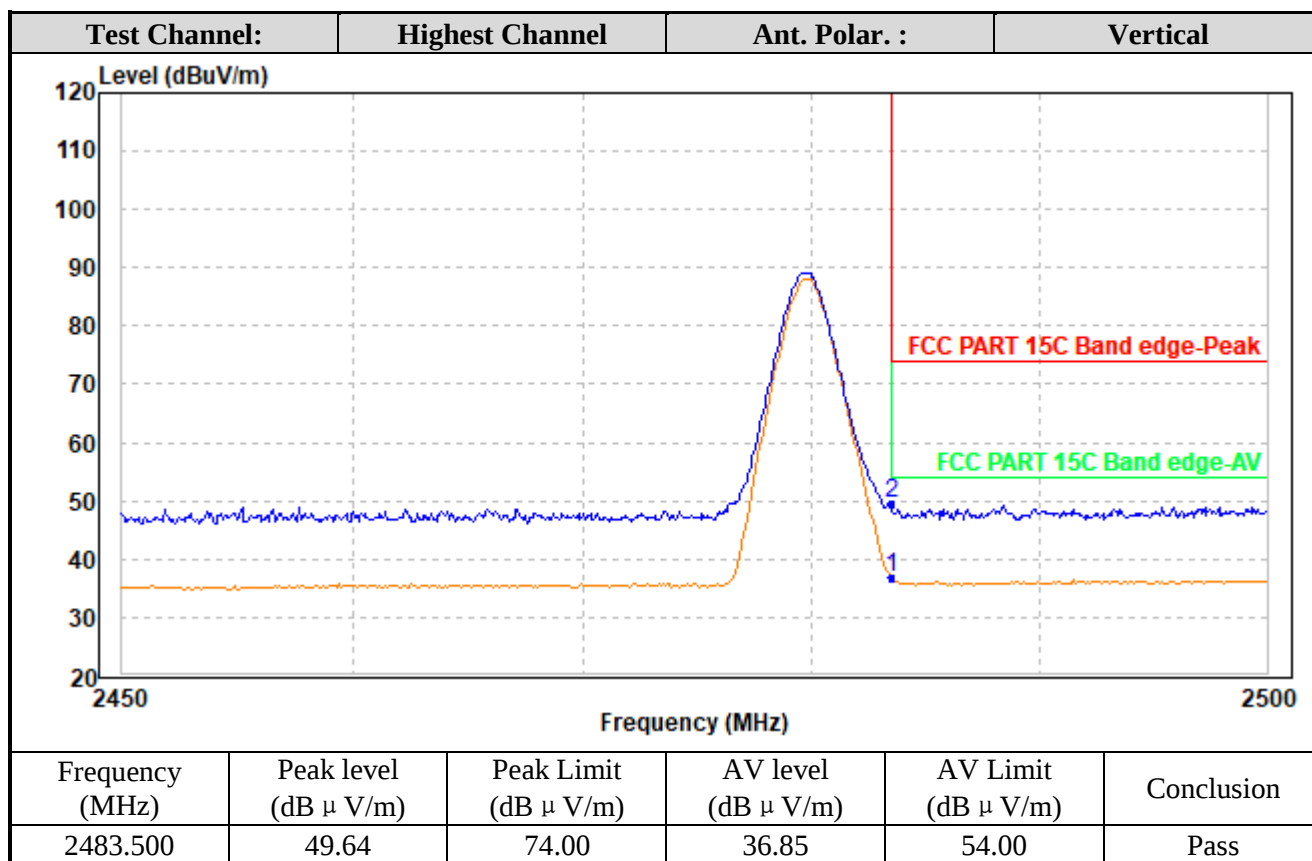


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FCC ID: 2BL9D-THERMALGLASS1

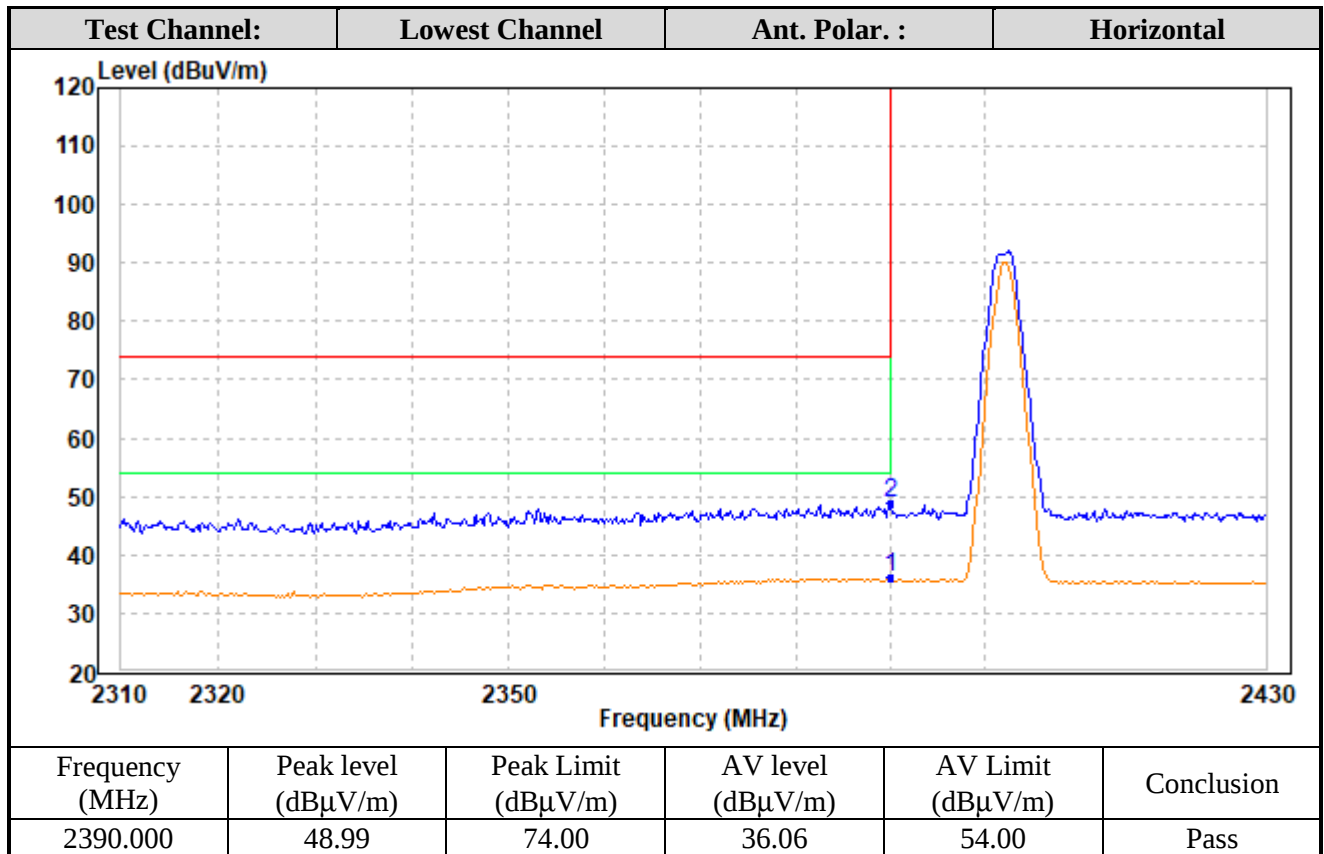


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2LE Mode:



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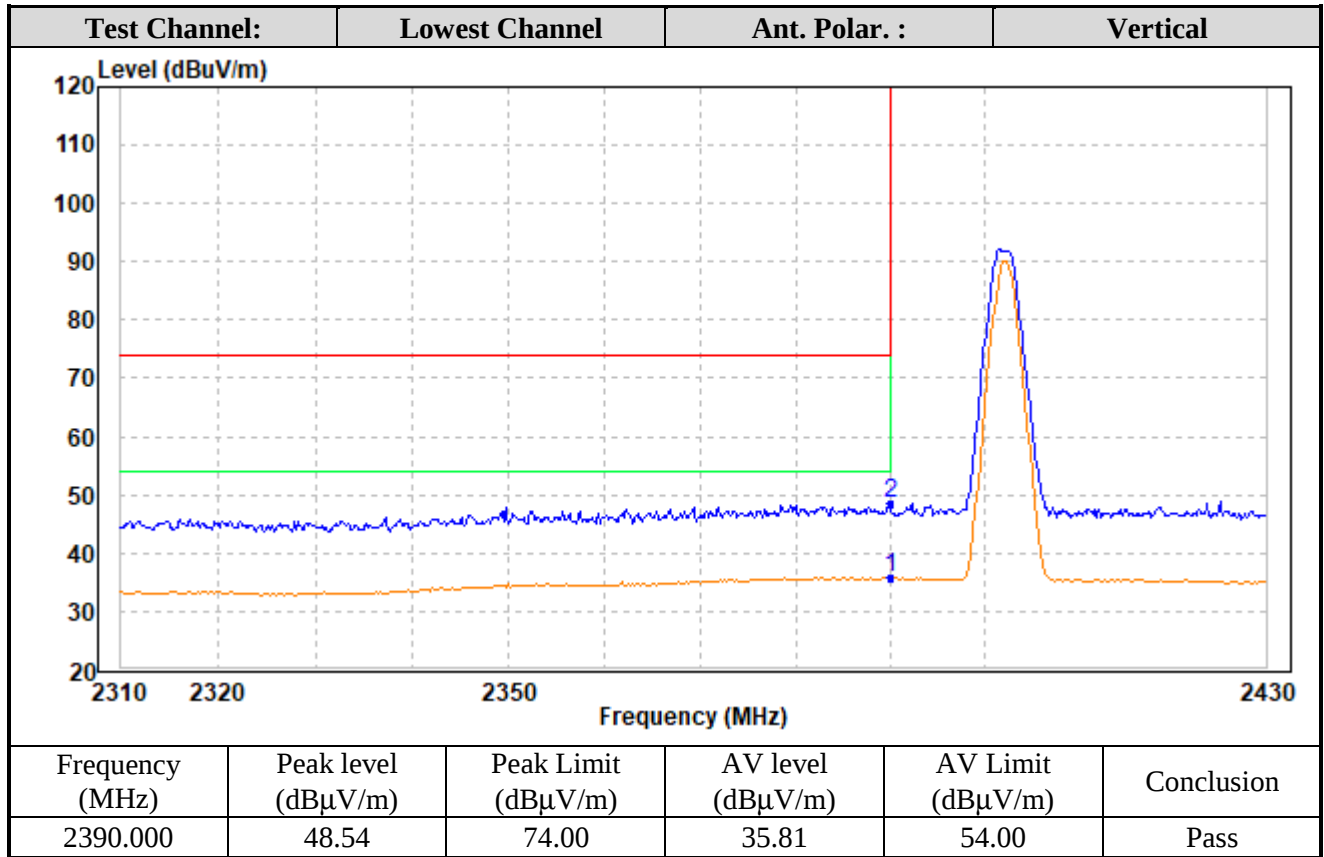
Room 1302, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, N.T., Hong Kong.

Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatesting.org Web Site: <http://www.cmatesting.org>

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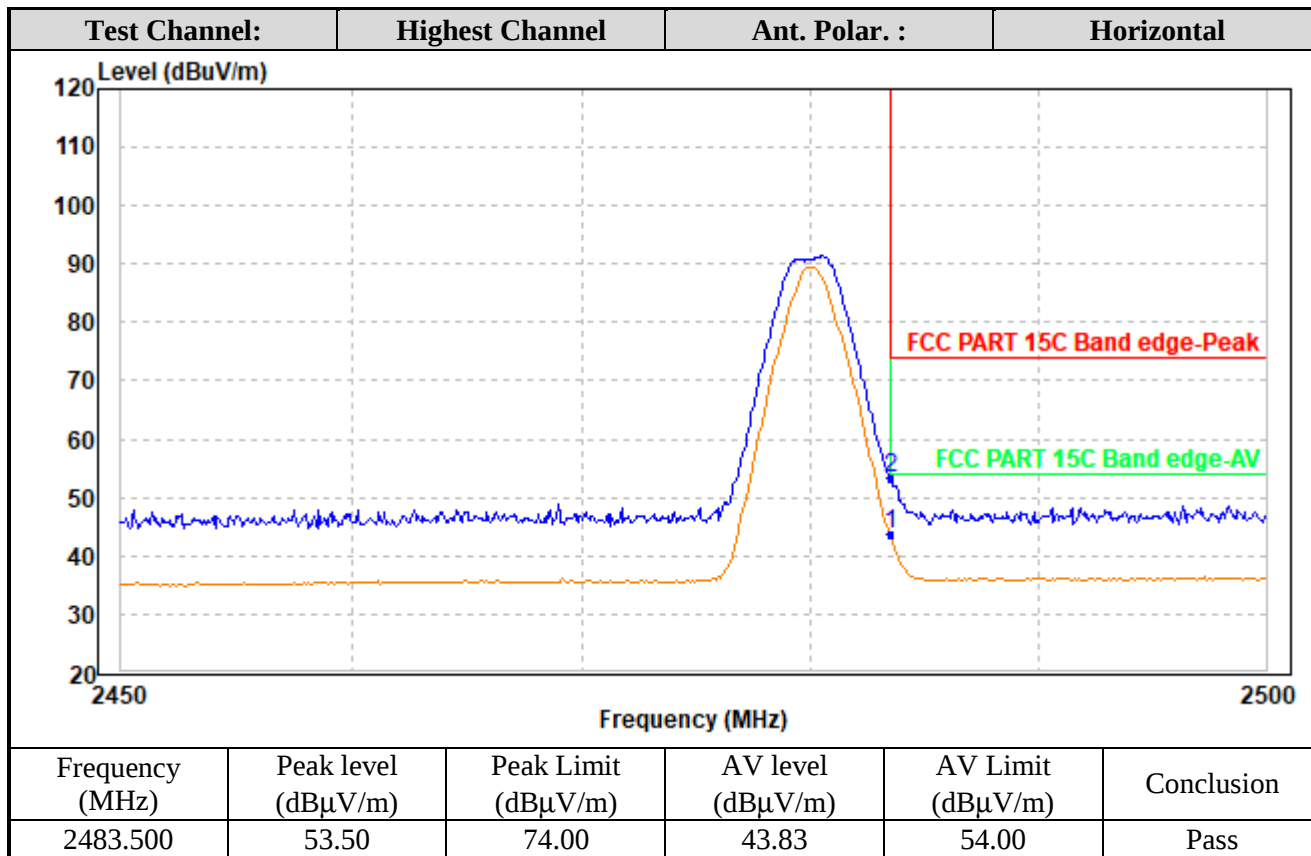
Date : 2025-04-11



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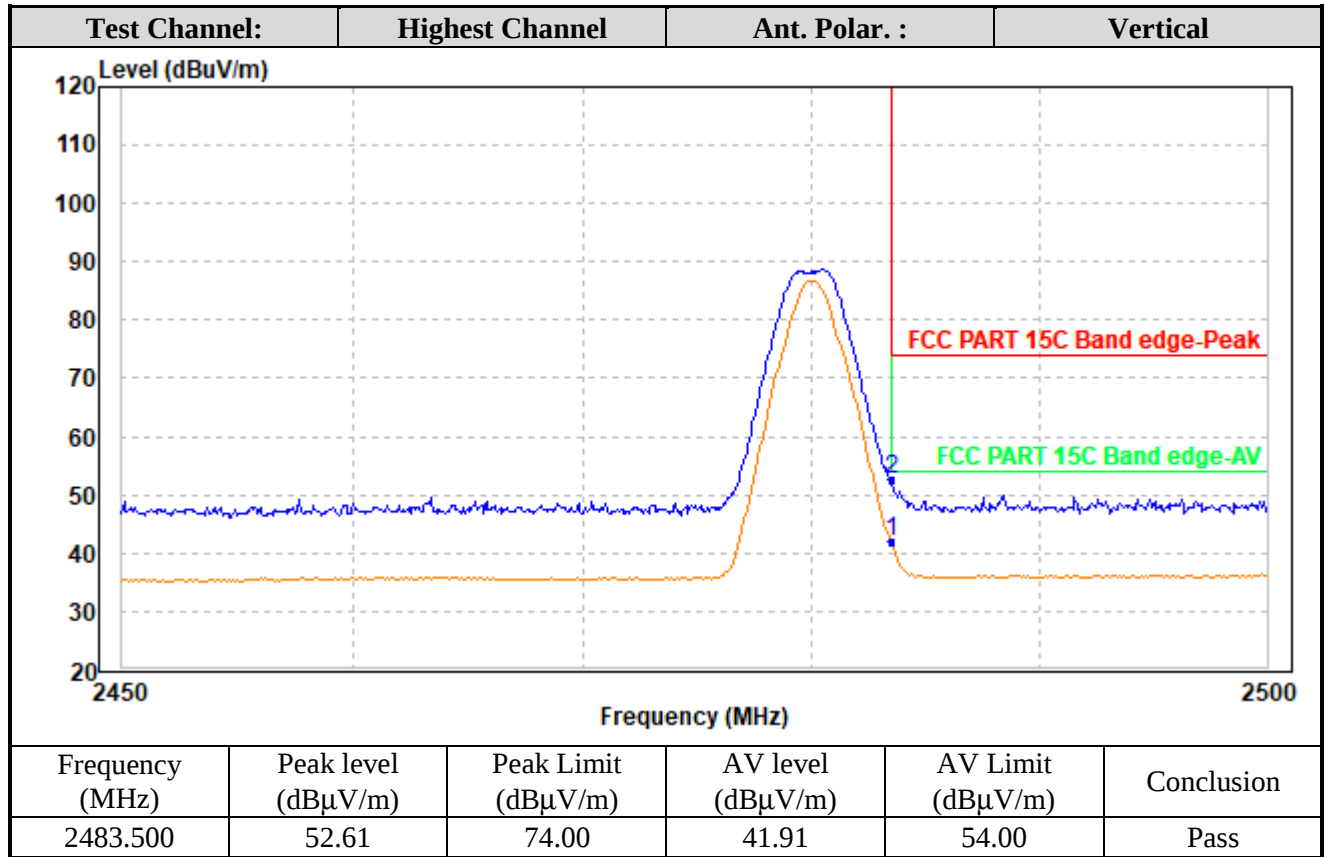
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7.7 Conducted Emission

7.7.1 Measurement

- Requirement : 47 CFR Part 15C Section 15.207
- Measuring procedure : ANSI C63.10-2013 Section 6.2
- Limit : Refer to 7.7.2
- Additional measuring 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 6.4.2 for details.
- Remark : Nil

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7.7.2 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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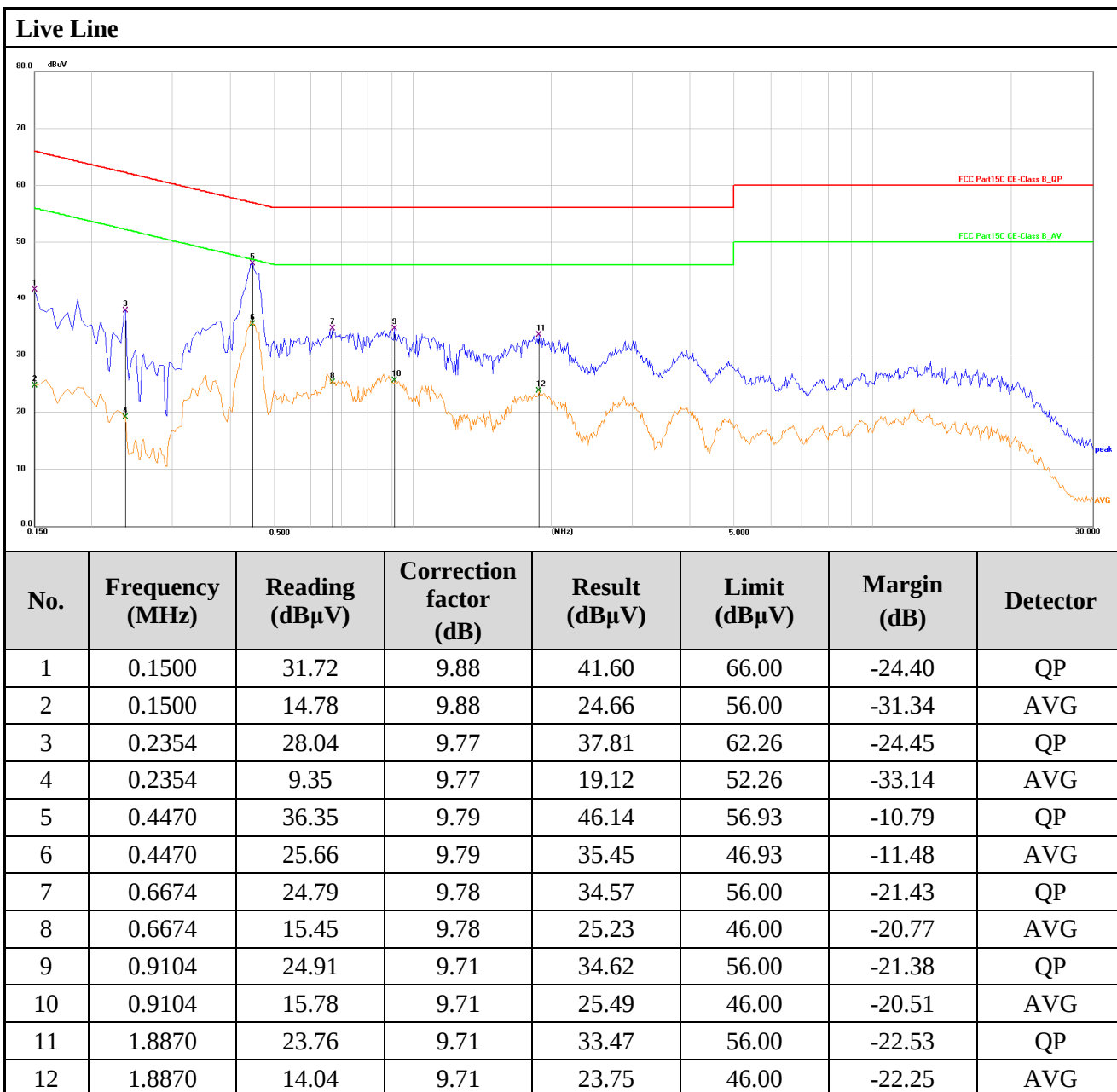
Date : 2025-04-11

7.7.3 Final Result

The worst measurement data as follows:

Quasi Peak and Average:

Mode: BT Link

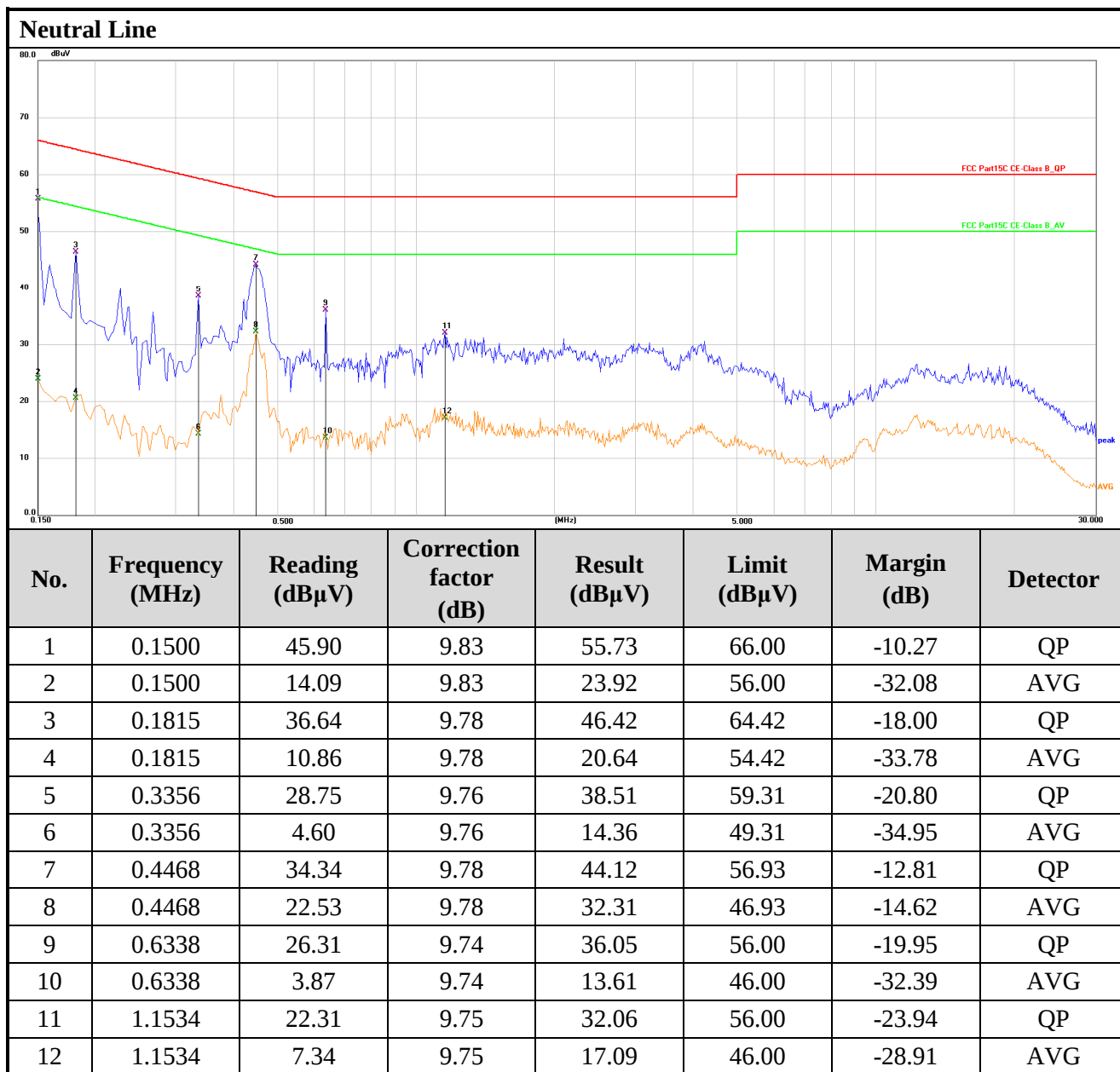


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Remark:

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

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detected.

5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V~50Hz and 120V~60Hz, only the worst case emissions reported.

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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-THERMALGLASS1 External photo.pdf
Internal Photo	2BL9D-THERMALGLASS1 Internal photo.pdf
Test Configuration Photo	2BL9D-THERMALGLASS1 Test setup photo.pdf

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APPENDIX A

Appendix A.1: 6DB Bandwidth

Test Graphs



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BLE_1M-Ant1-2440-PASS



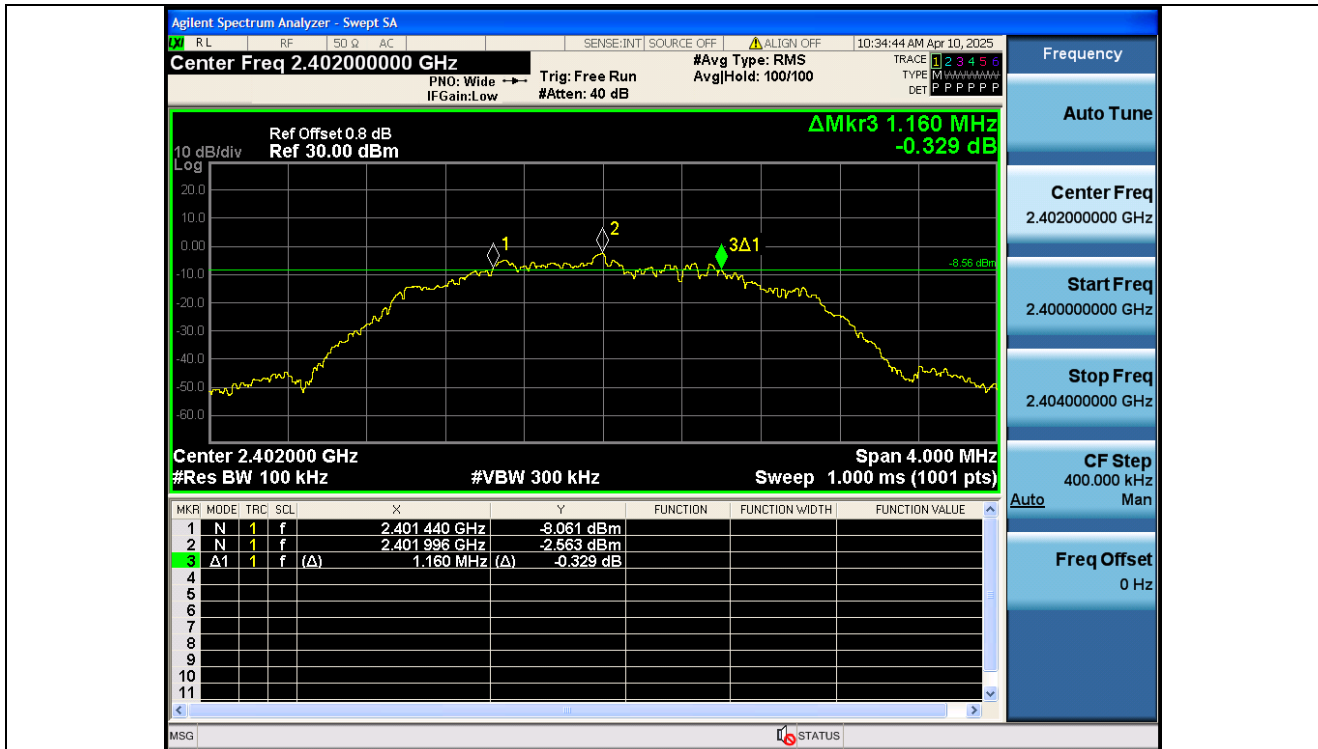
BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

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Appendix A.2: 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

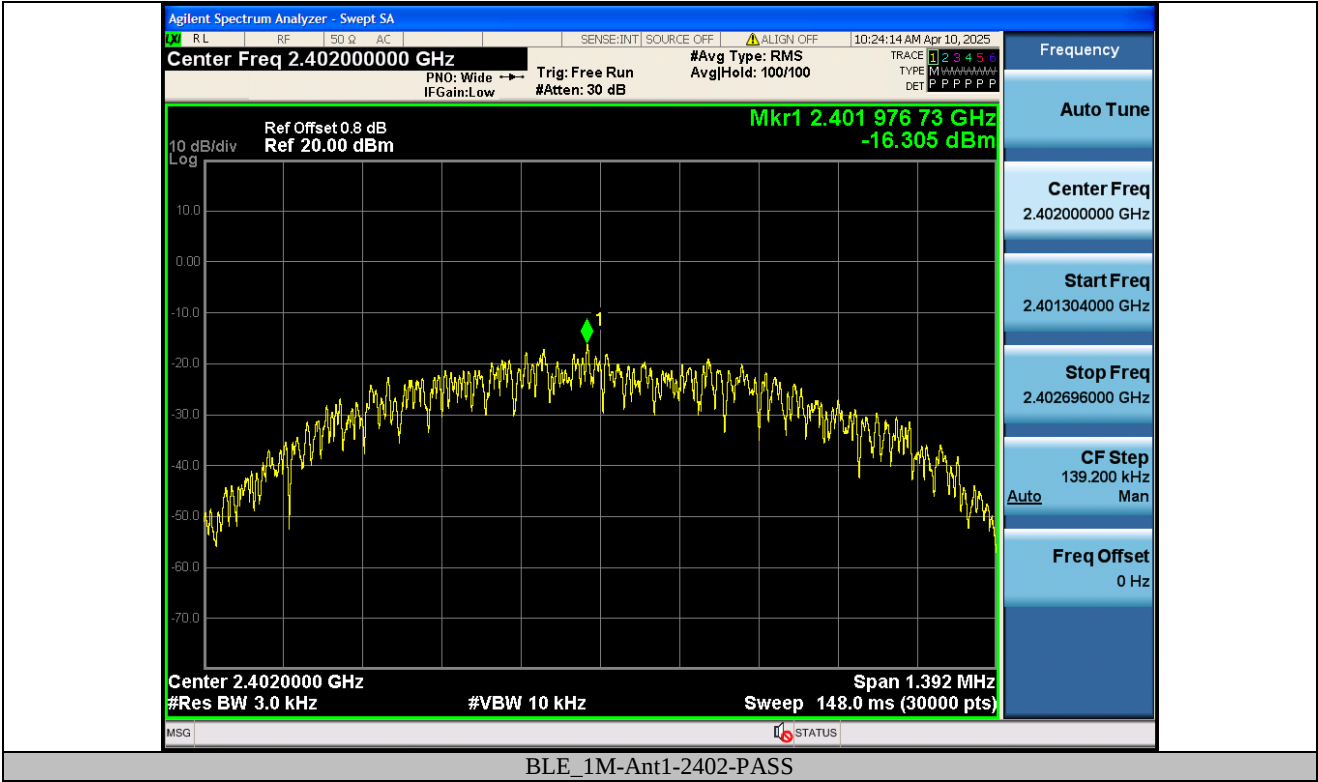
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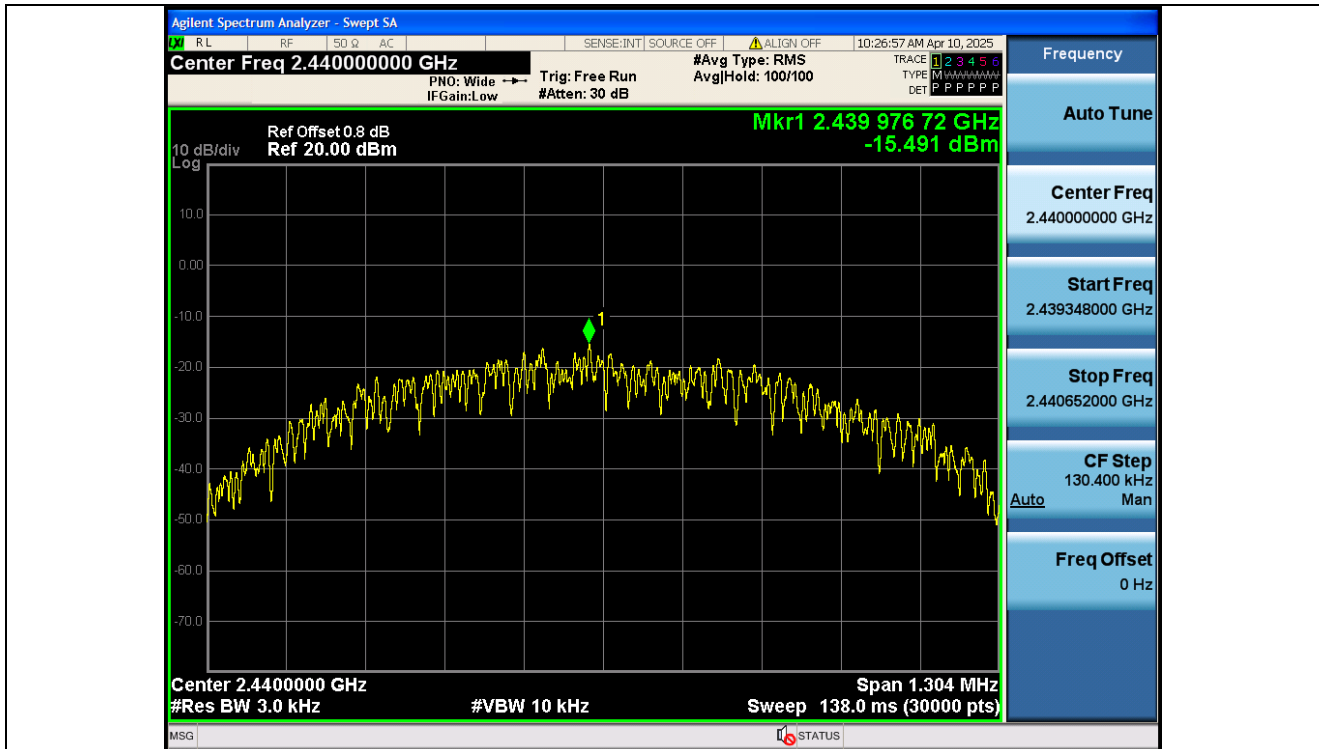
Test Graphs



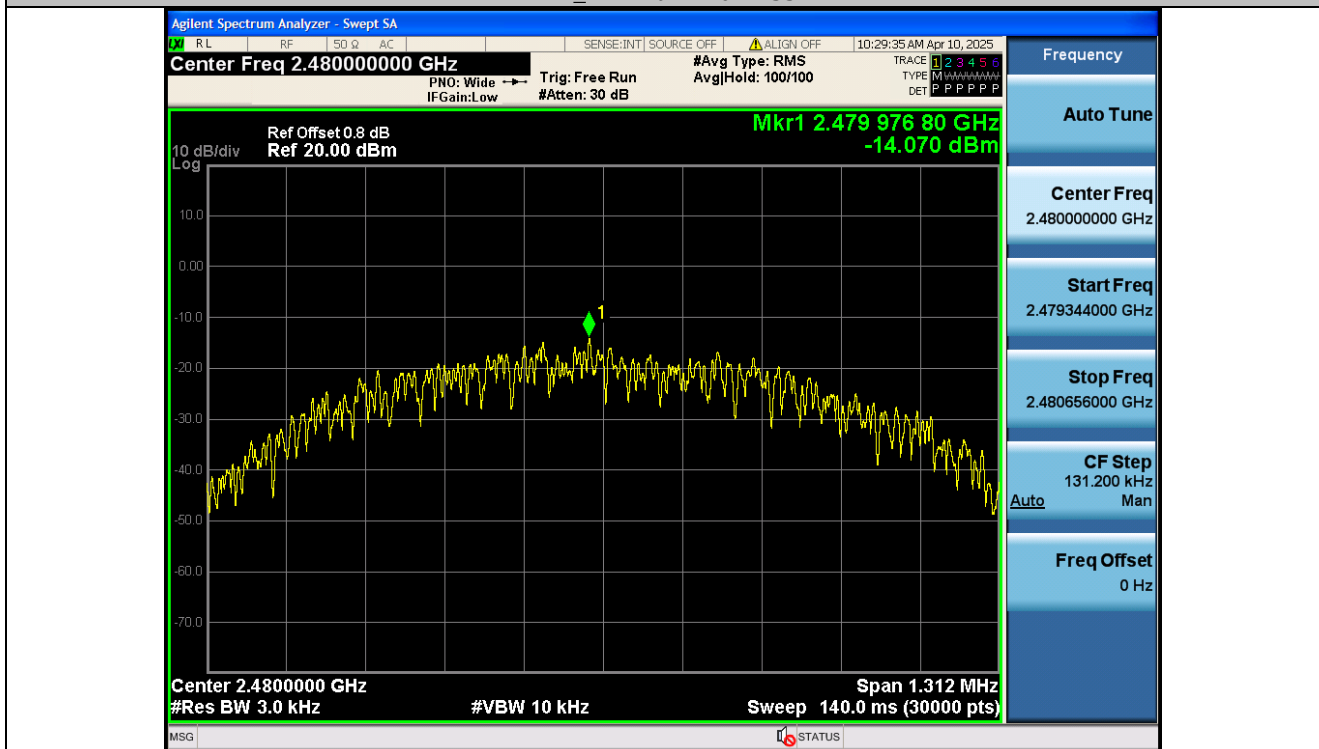
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BLE_1M-Ant1-2440-PASS



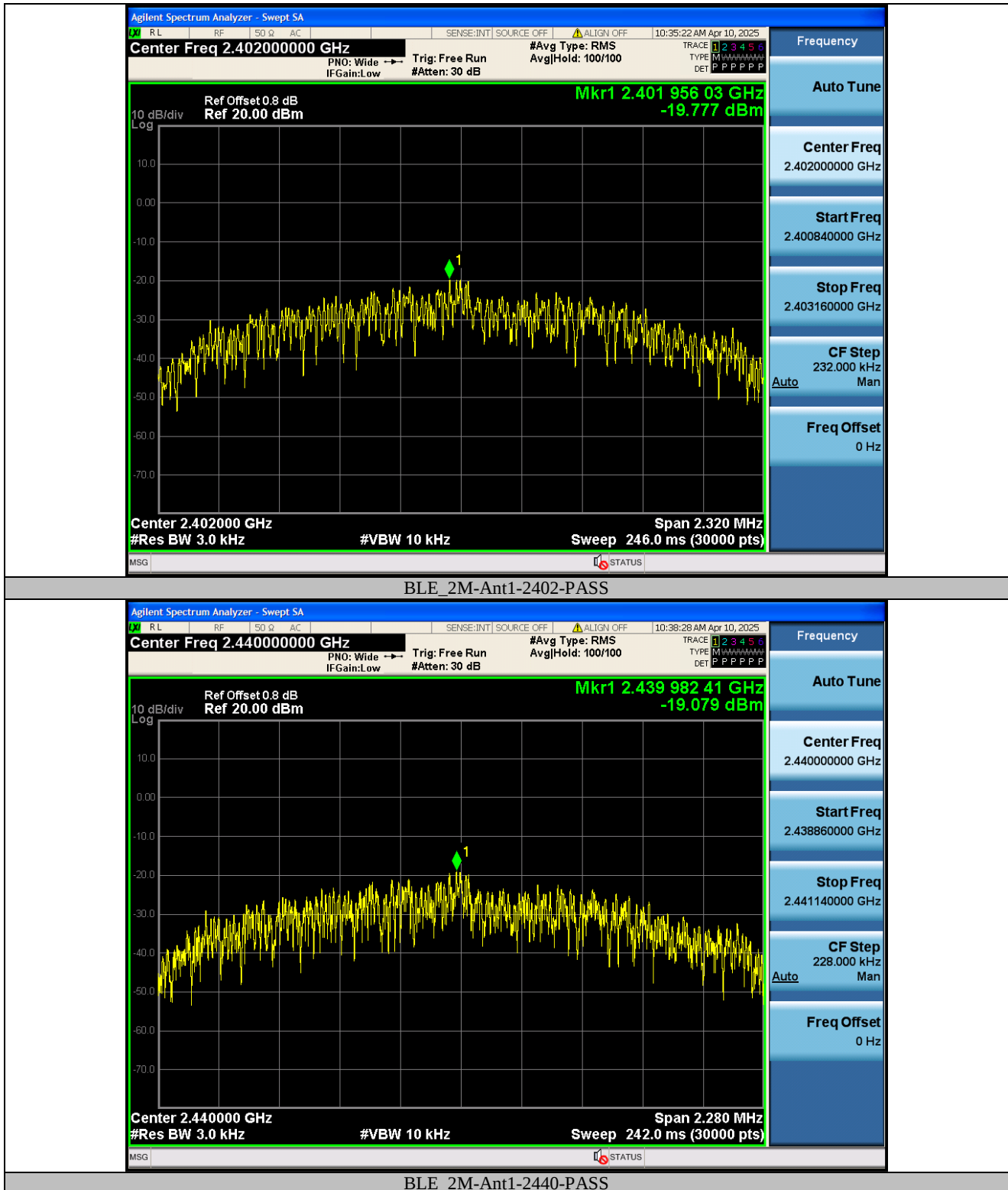
BLE_1M-Ant1-2480-PASS

FCC ID: 2BL9D-THERMALGLASS1

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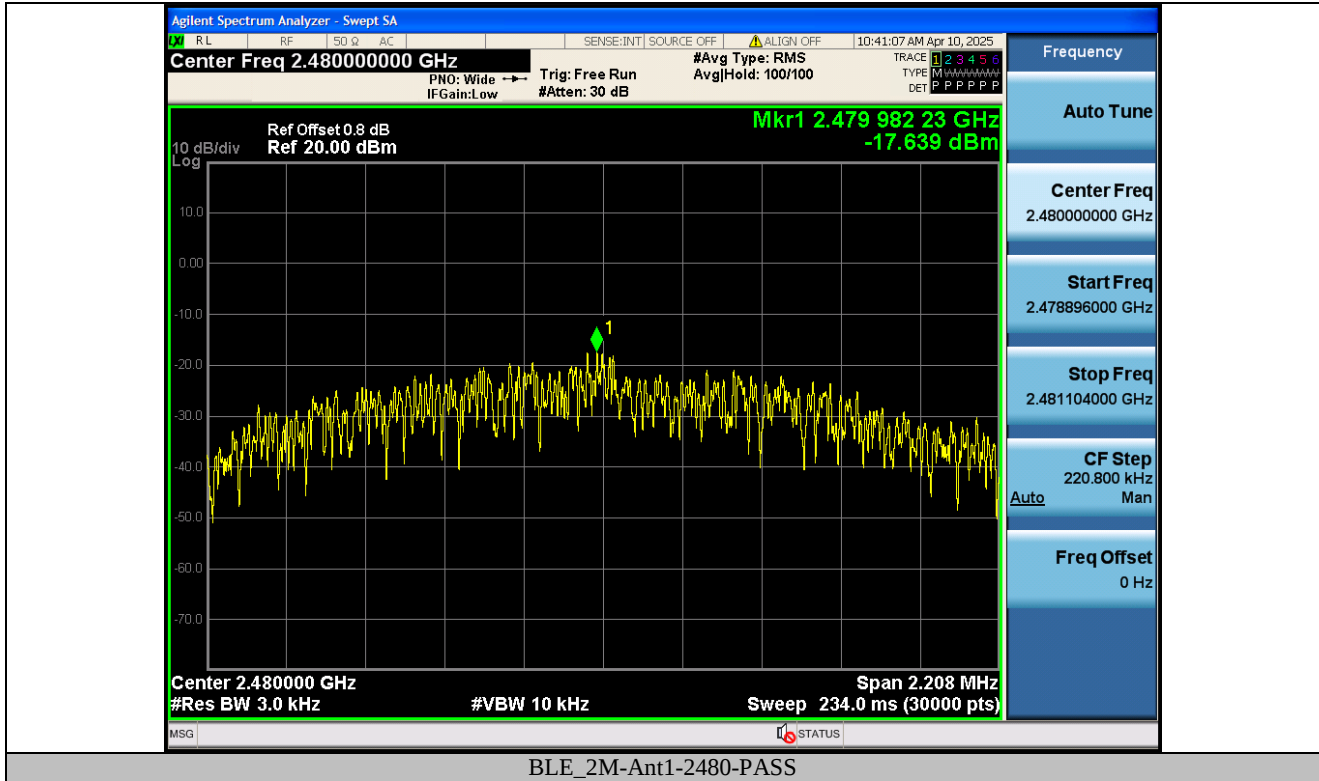
FCC ID: 2BL9D-THERMALGLASS1



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Appendix A.3: 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

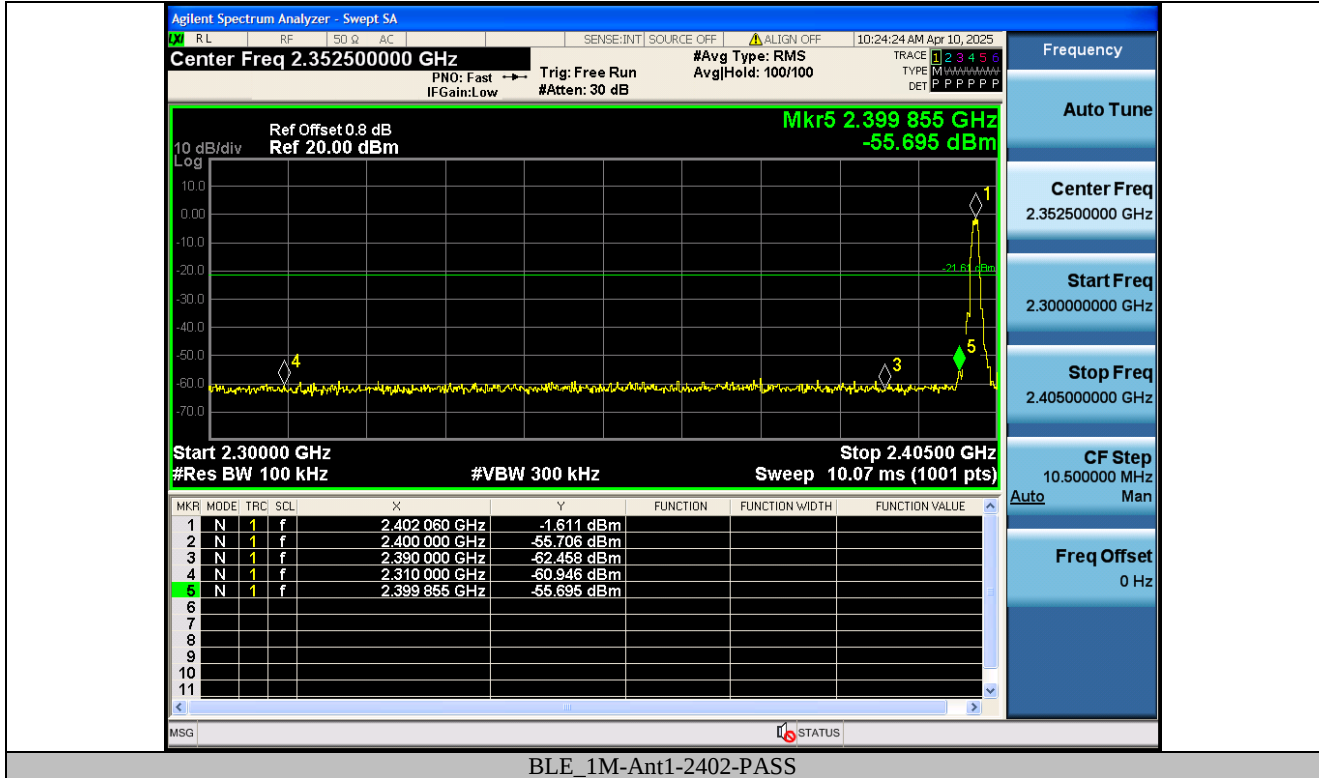


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Test Graphs

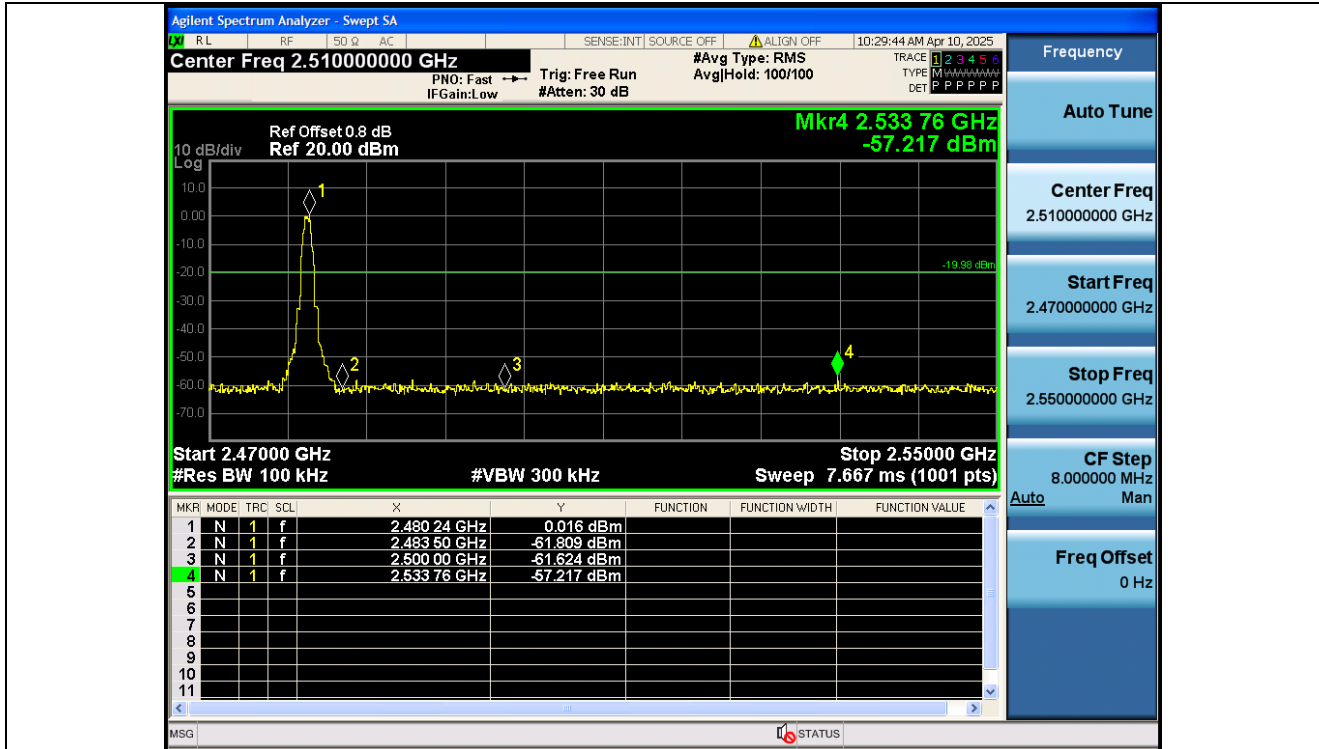


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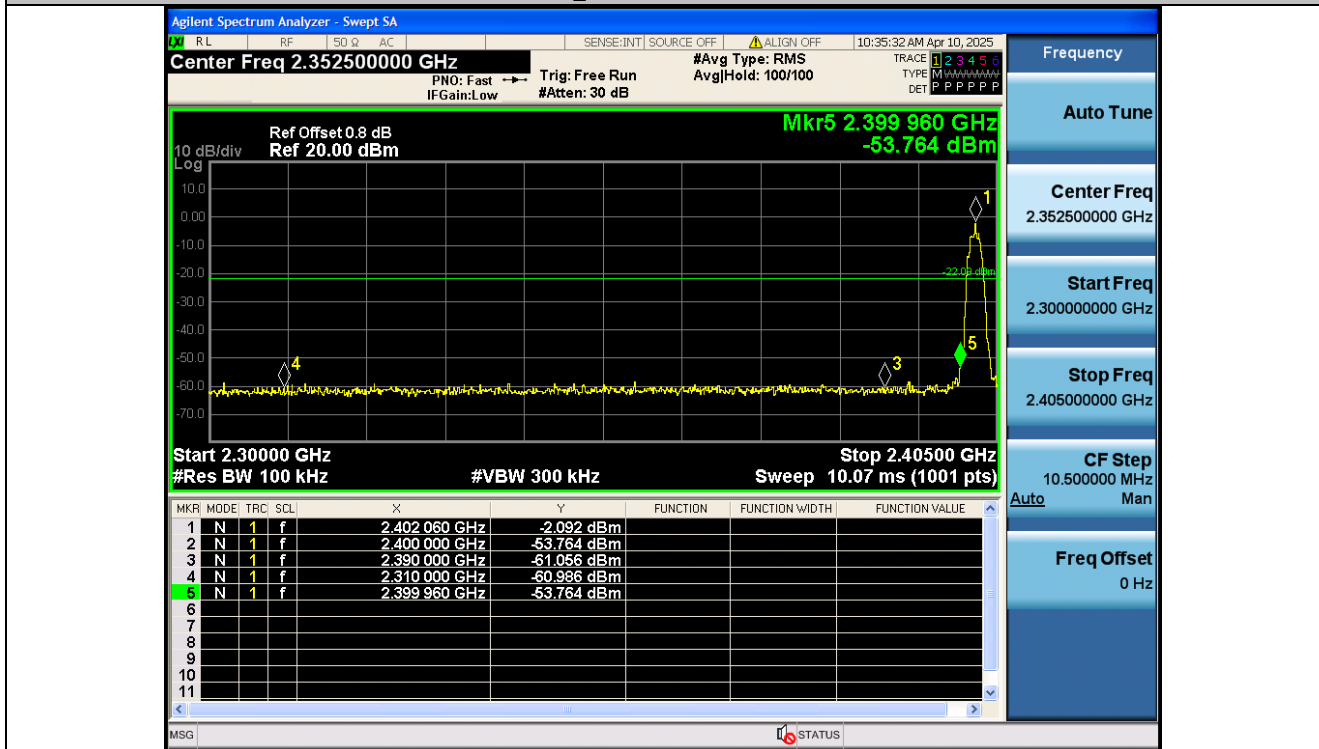
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BLE_1M-Ant1-2480-PASS



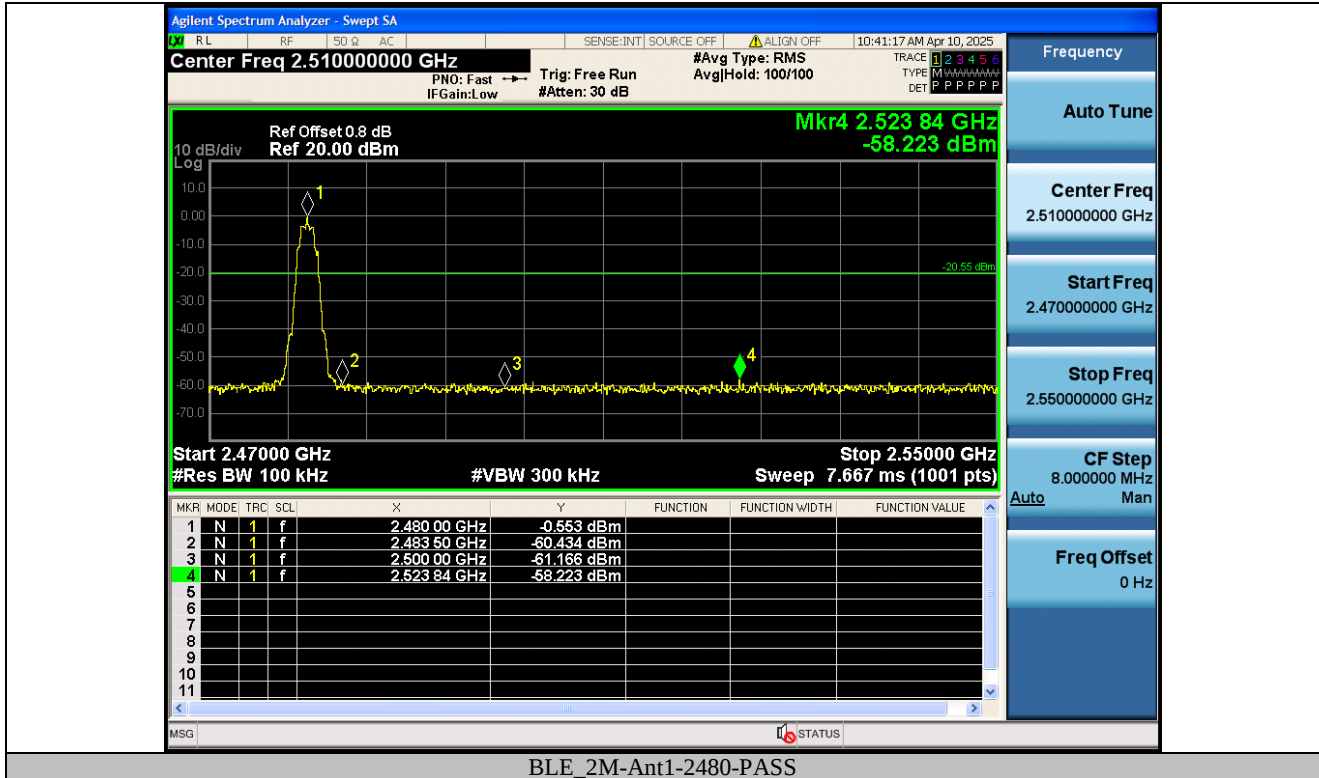
BLE_2M-Ant1-2402-PASS

FCC ID: 2BL9D-THERMALGLASS1

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Appendix A.4: 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

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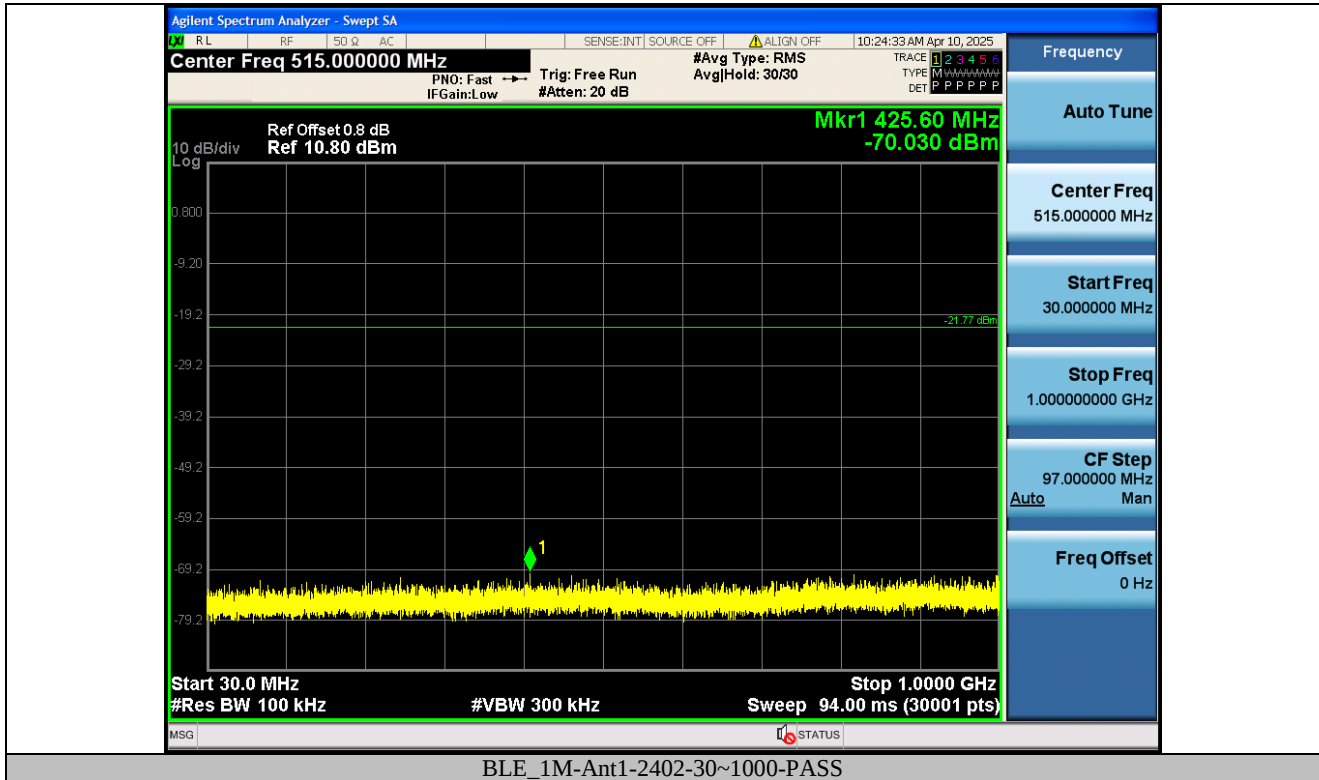


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Test Graphs

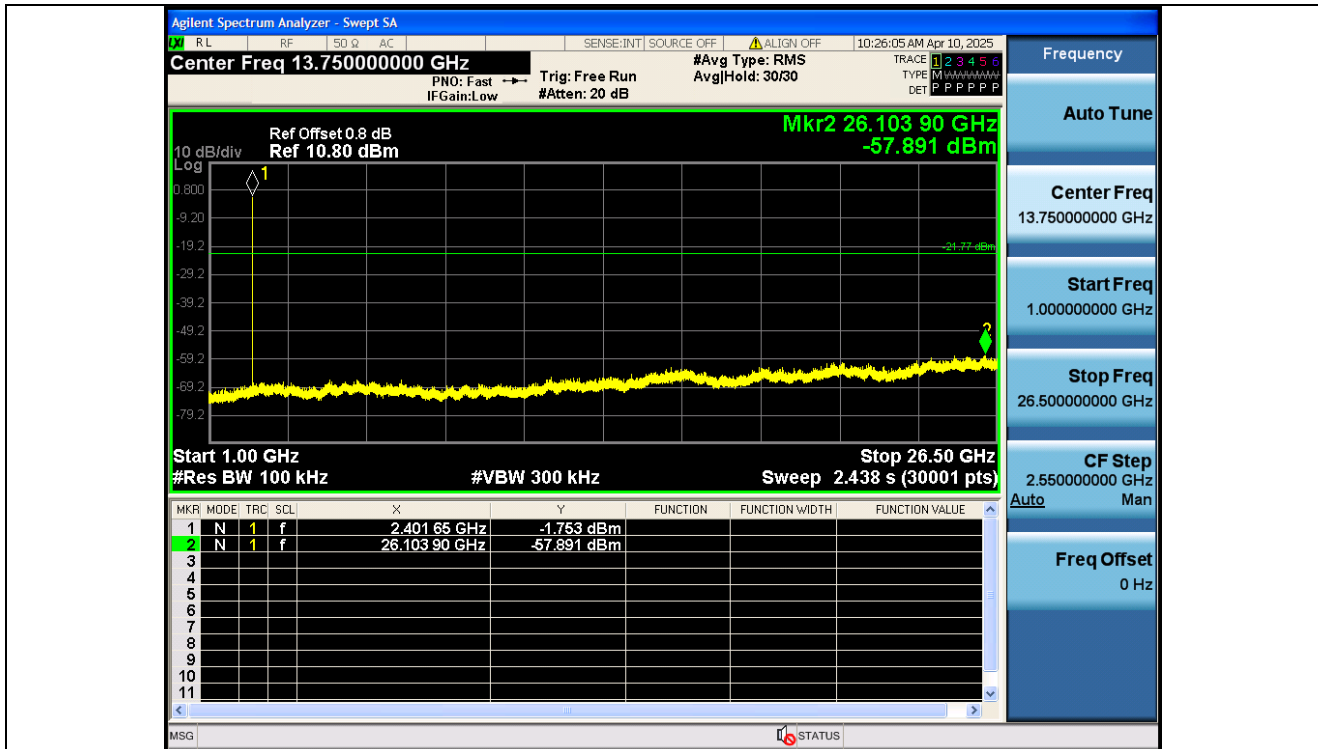


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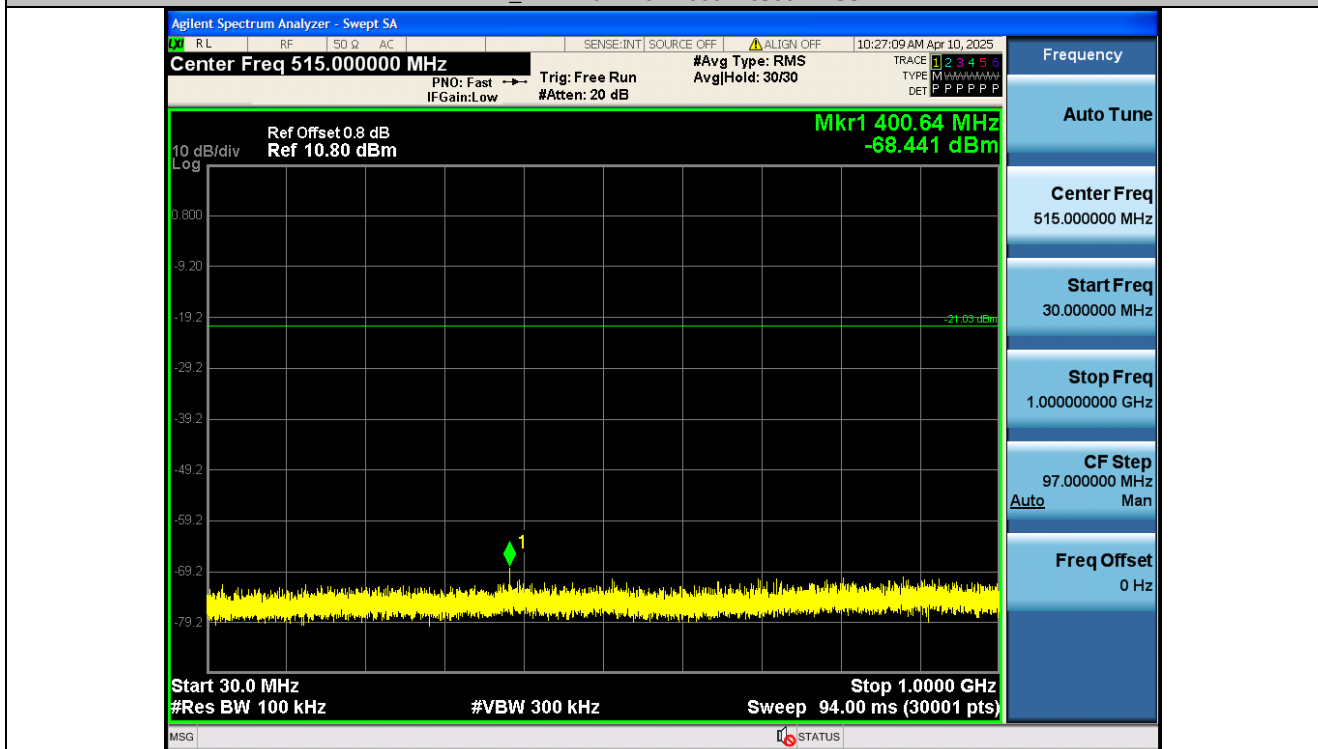
TEST REPORT

Report No. : A20011318(5)

Date : 2025-04-11



BLE_1M-Ant1-2402-1000~26500-PASS



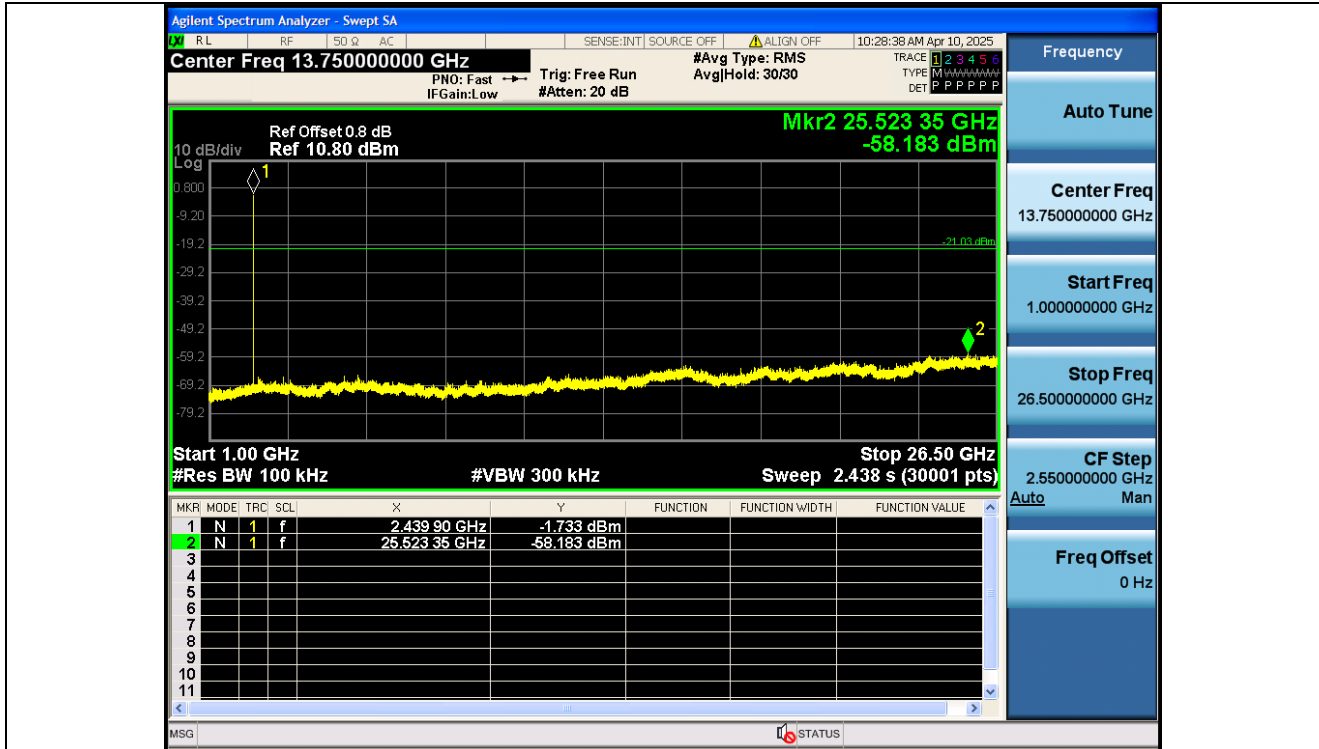
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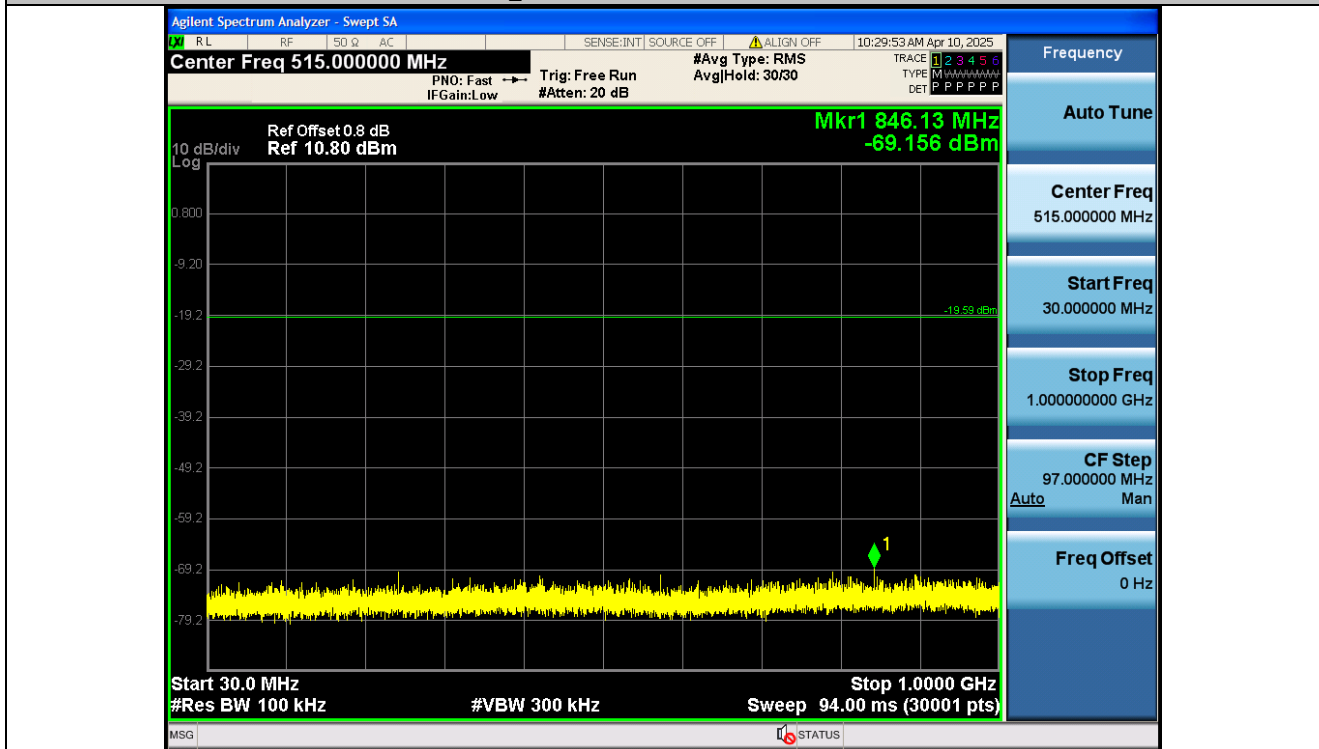
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Report No. : A20011318(5)

Date : 2025-04-11



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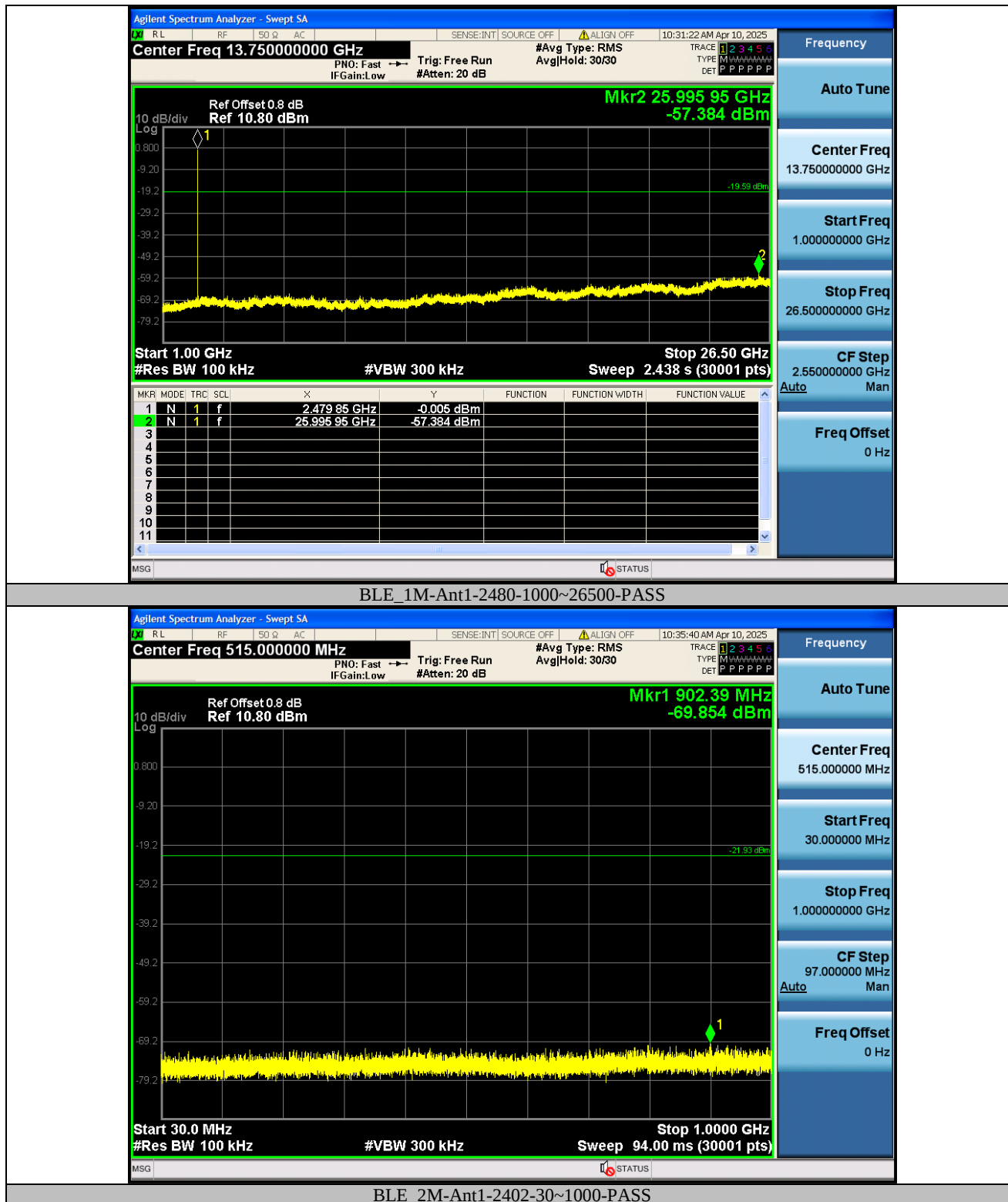
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TEST REPORT

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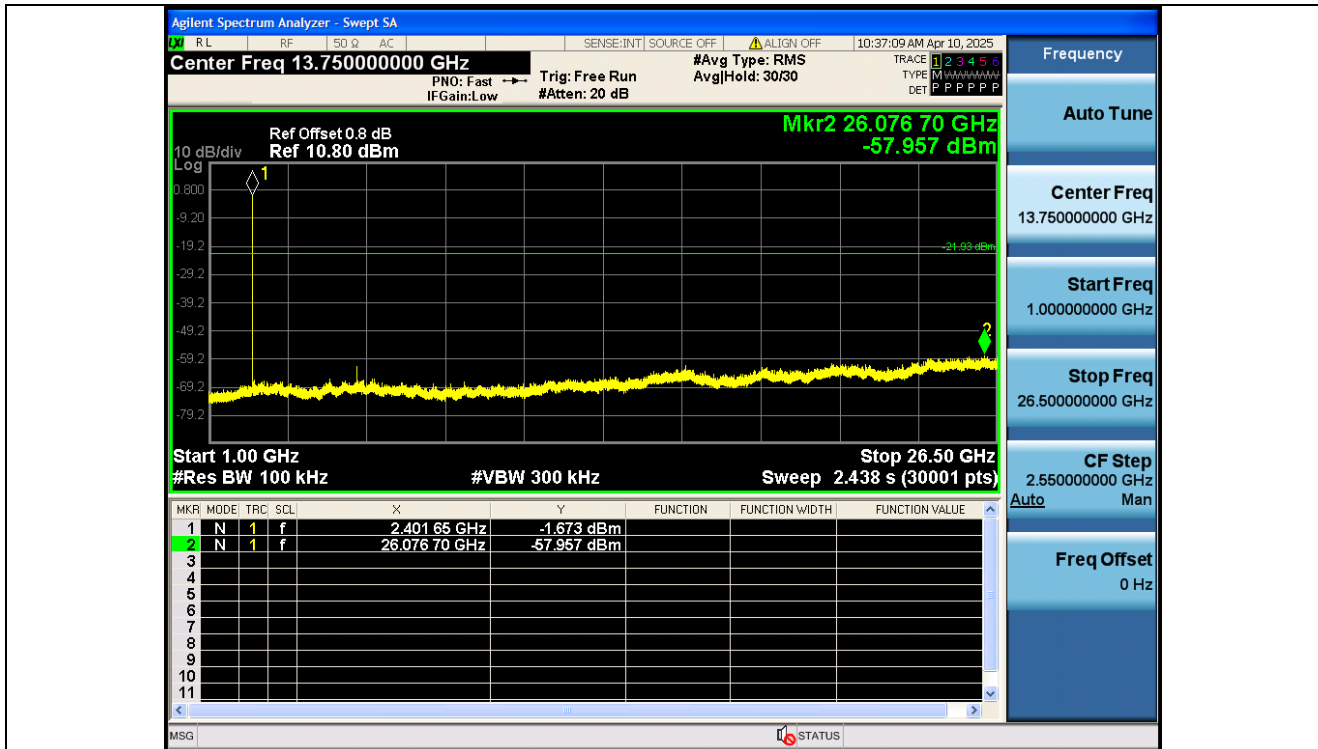


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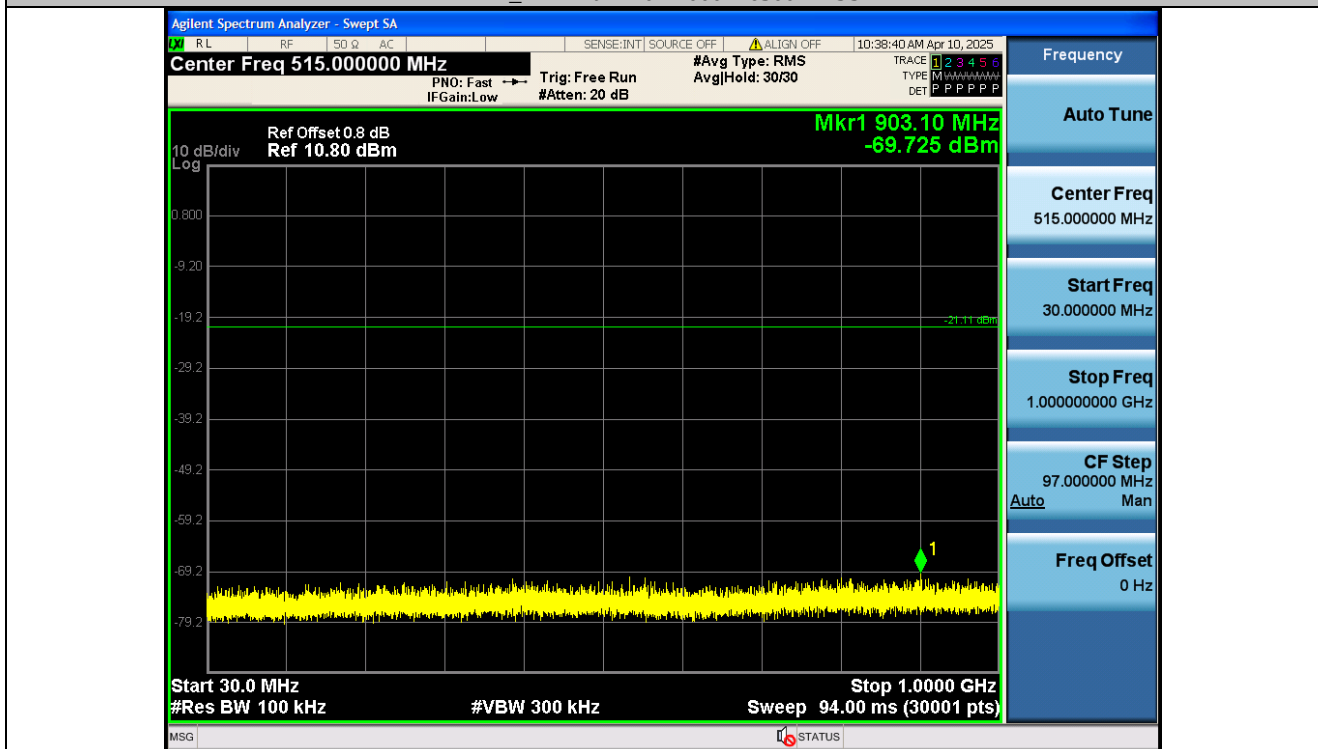
TEST REPORT

Report No. : A20011318(5)

Date : 2025-04-11



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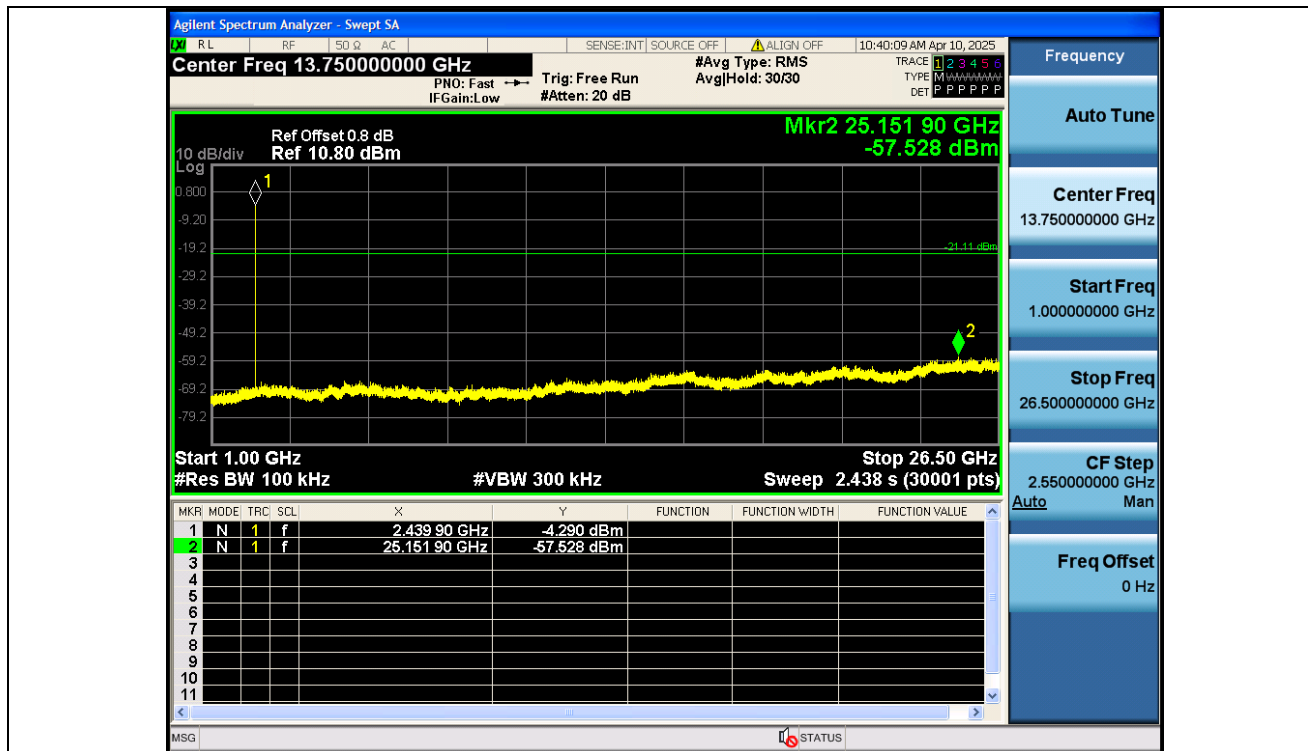
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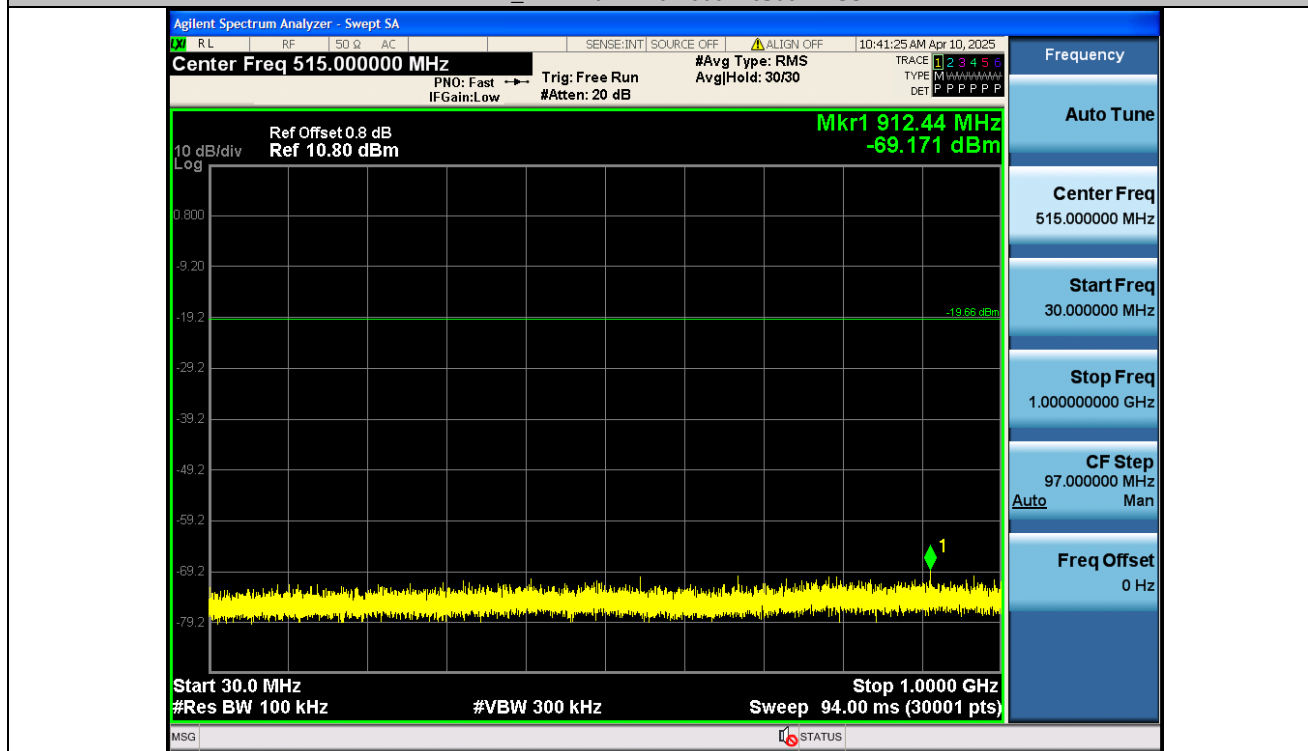
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Date : 2025-04-11



BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-30~1000-PASS

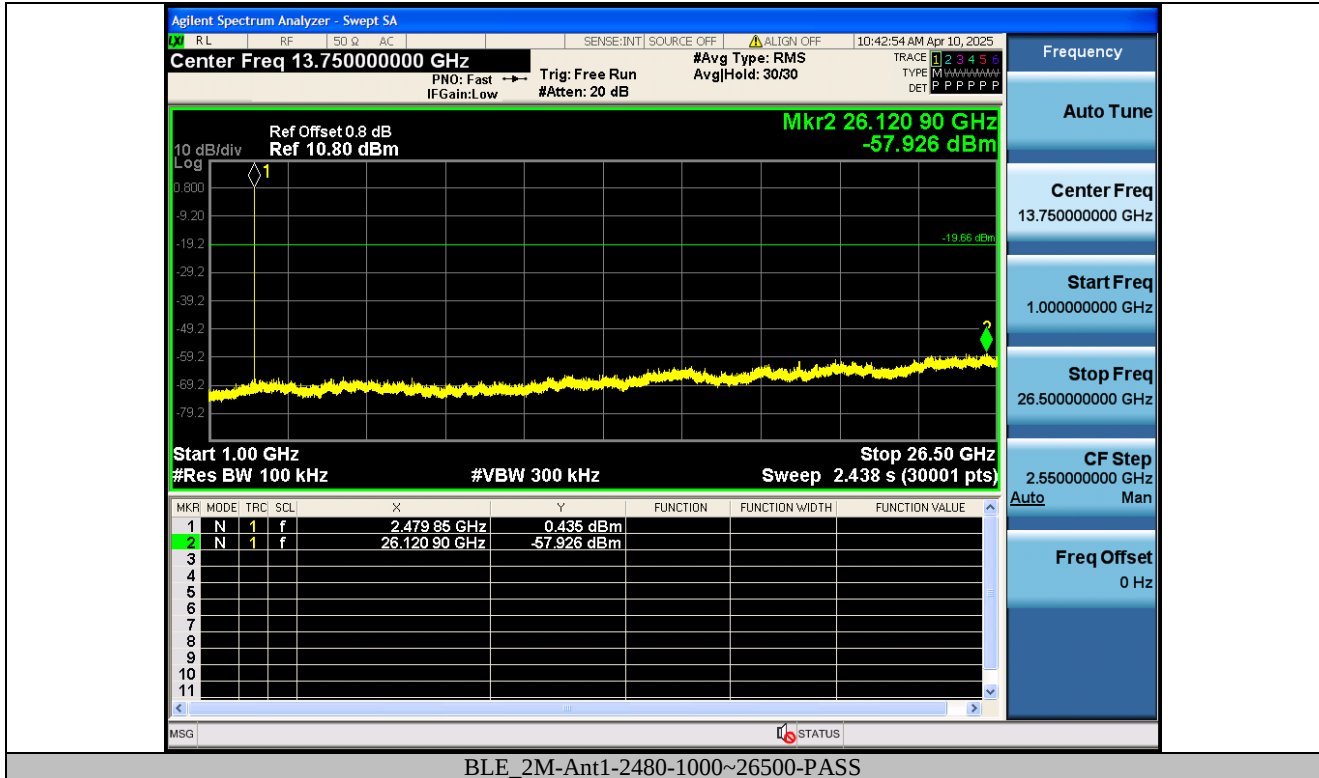
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