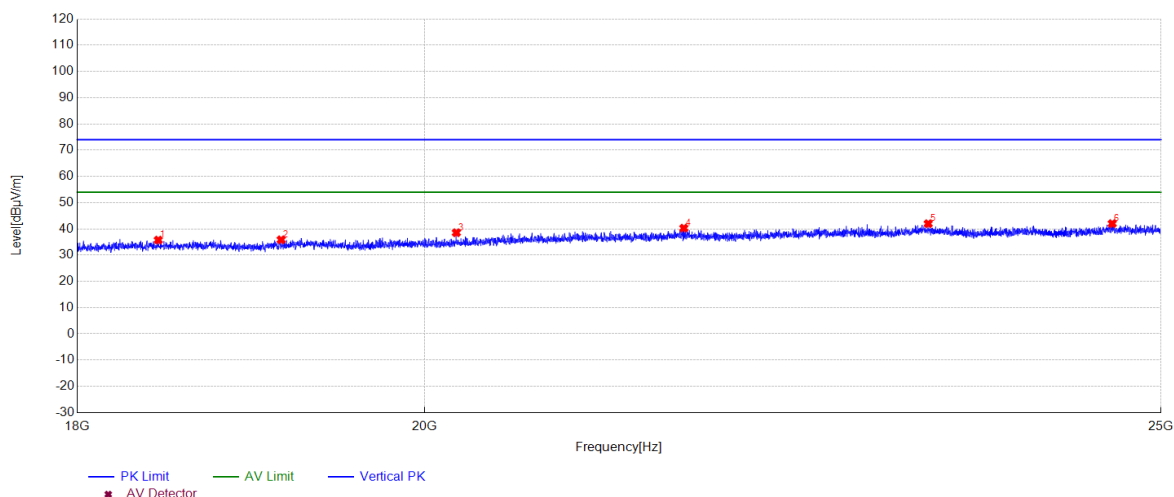


EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 4	Antenna Polarity	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18448.064009	35.73	-7.22	54.00	18.27	150	310	Vertical
2	19148.164023	35.84	-6.92	54.00	18.16	150	180	Vertical
3	20192.313188	38.53	-6.76	54.00	15.47	150	50	Vertical
4	21633.519074	40.26	-4.86	54.00	13.74	150	260	Vertical
5	23296.75668	41.97	-3.29	54.00	12.03	150	180	Vertical
6	24632.947564	42.00	-3.05	54.00	12.00	150	250	Vertical

RESULT: Pass

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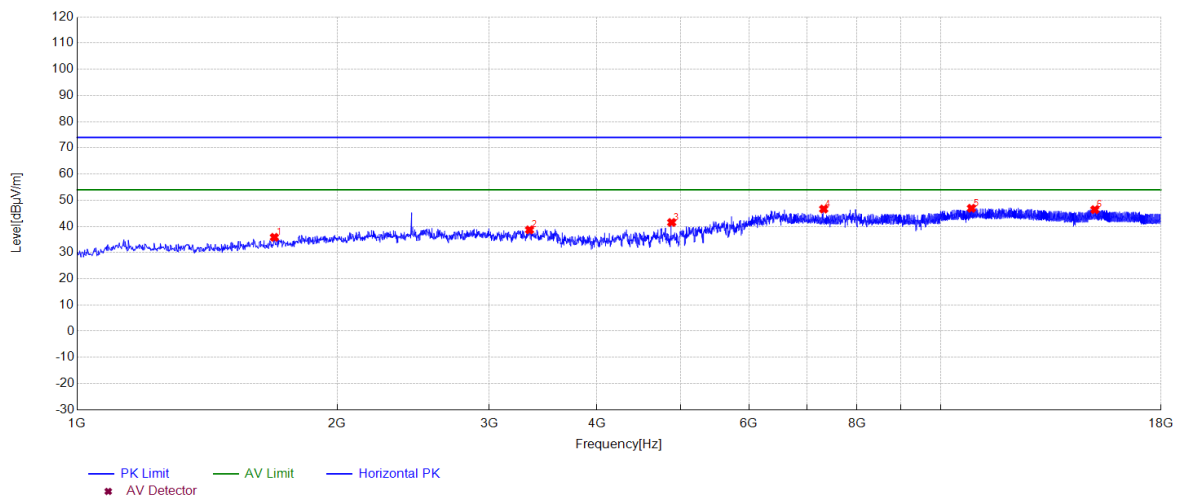
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Radiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 5	Antenna Polarity	Horizontal



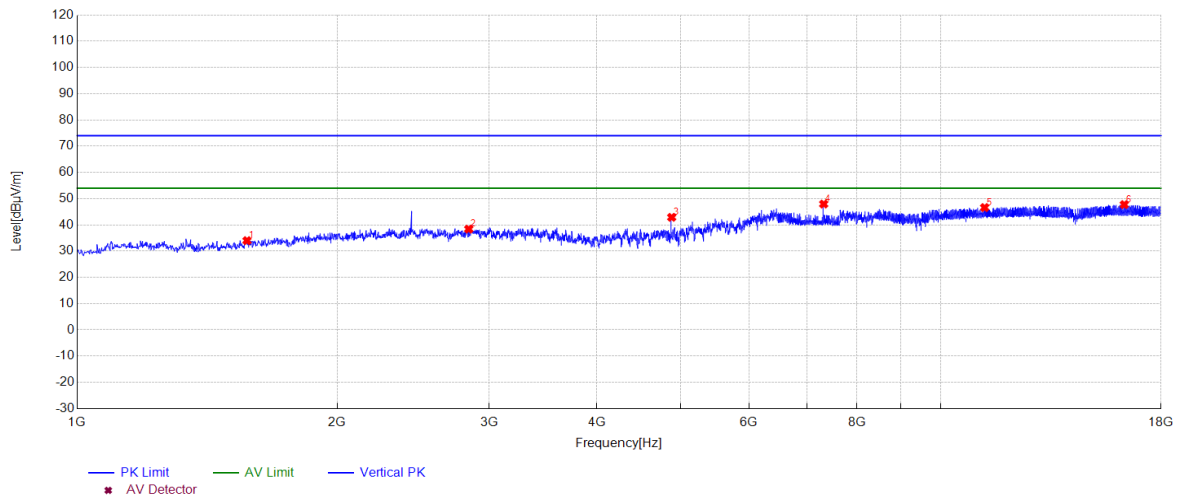
Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1691.969197	35.84	-16.28	54.00	18.16	150	40	Horizontal
2	3341.134113	38.67	-10.72	54.00	15.33	150	120	Horizontal
3	4881.488149	41.51	-8.76	54.00	12.49	150	210	Horizontal
4	7321.232123	46.63	-2.98	54.00	7.37	150	120	Horizontal
5	10857.585759	46.92	3.91	54.00	7.08	150	50	Horizontal
6	15087.608761	46.39	1.81	54.00	7.61	150	90	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 5	Antenna Polarity	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1572.957296	34.00	-17.24	54.00	20.00	150	120	Vertical
2	2841.284128	38.39	-11.30	54.00	15.61	150	90	Vertical
3	4881.488149	42.88	-8.76	54.00	11.12	150	110	Vertical
4	7321.232123	47.94	-2.98	54.00	6.06	150	340	Vertical
5	11245.224523	46.59	3.60	54.00	7.41	150	10	Vertical
6	16318.531853	47.73	3.93	54.00	6.27	150	60	Vertical

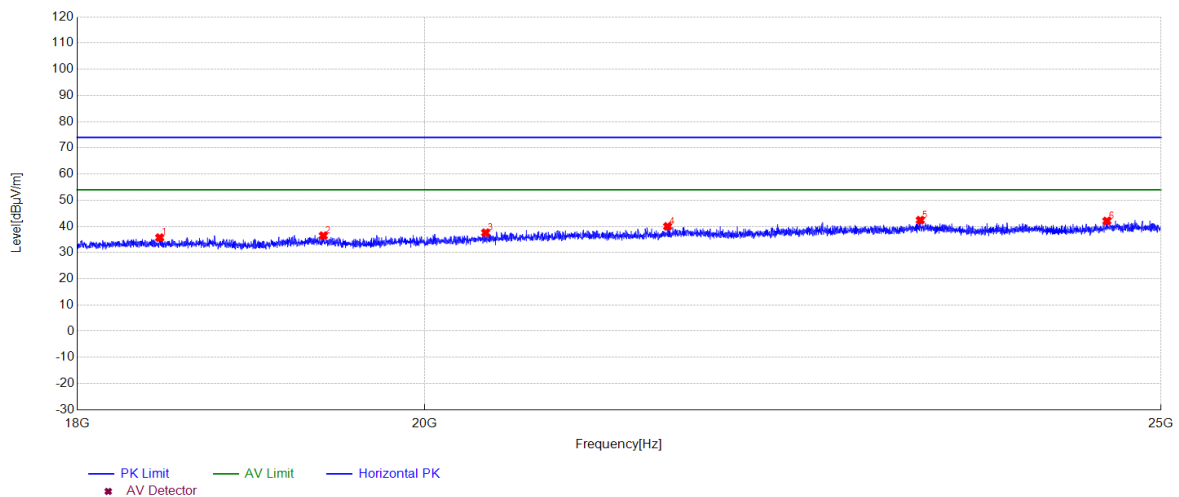
RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 5	Antenna Polarity	Horizontal



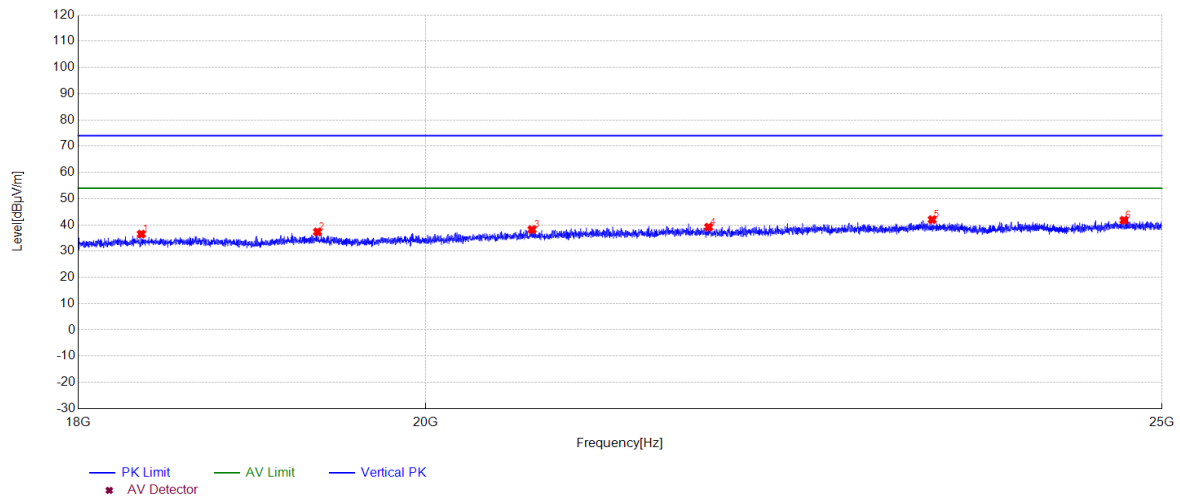
Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18456.065152	35.70	-7.31	54.00	18.30	150	110	Horizontal
2	19394.199171	36.45	-7.02	54.00	17.55	150	200	Horizontal
3	20372.338906	37.57	-6.48	54.00	16.43	150	300	Horizontal
4	21527.503929	40.00	-4.97	54.00	14.00	150	210	Horizontal
5	23240.748678	42.38	-3.19	54.00	11.62	150	200	Horizontal
6	24592.941849	42.05	-3.02	54.00	11.95	150	180	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 5	Antenna Polarity	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18348.049721	36.49	-7.28	54.00	17.51	150	170	Vertical
2	19354.193456	37.33	-6.96	54.00	16.67	150	100	Vertical
3	20654.379197	38.20	-6.04	54.00	15.80	150	10	Vertical
4	21790.541506	39.15	-4.70	54.00	14.85	150	120	Vertical
5	23317.75968	41.99	-3.29	54.00	12.01	150	180	Vertical
6	24712.958994	41.77	-3.03	54.00	12.23	150	160	Vertical

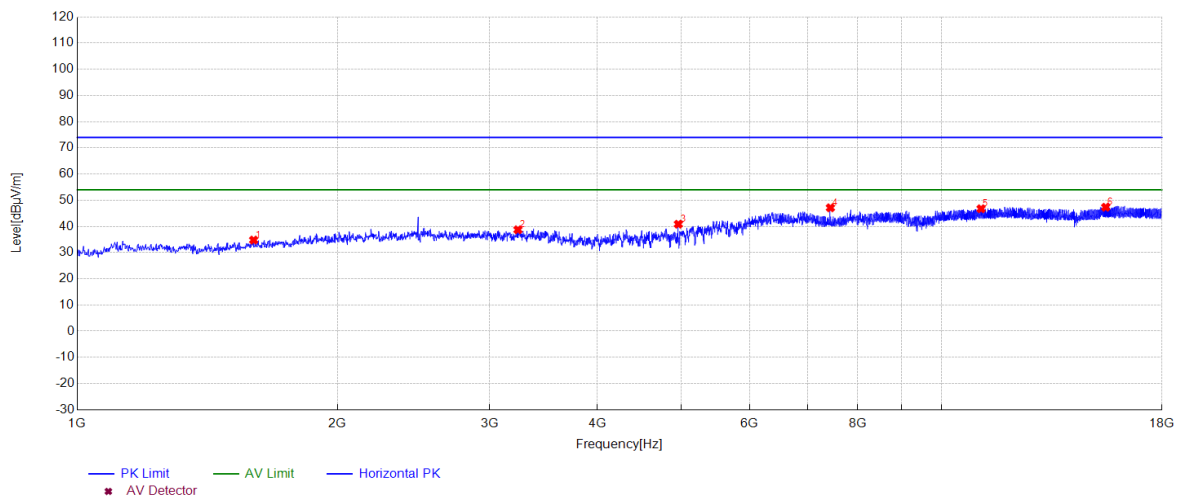
RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 6	Antenna Polarity	Horizontal



Suspected Data List

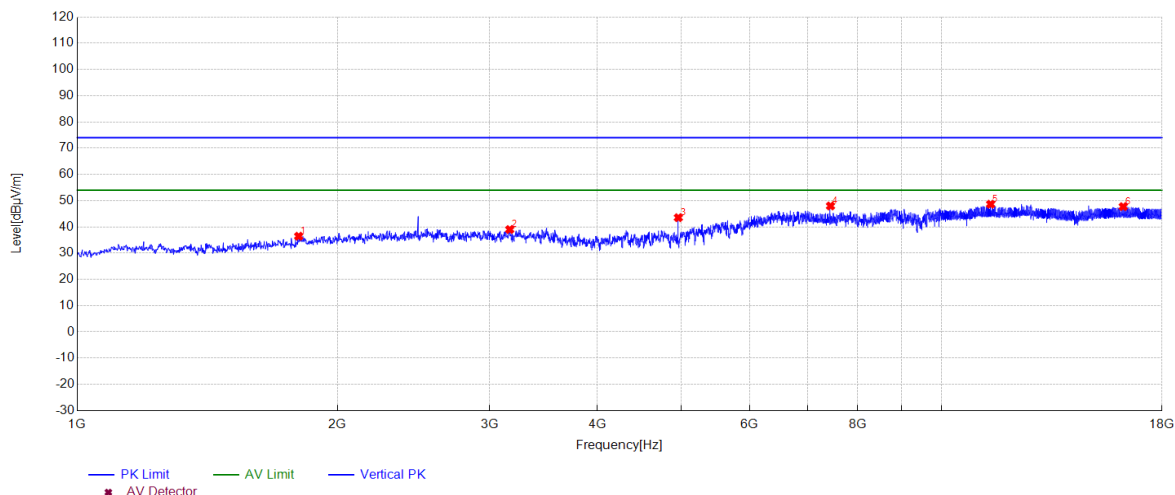
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1600.160016	34.79	-17.02	54.00	19.21	150	30	Horizontal
2	3235.723572	38.73	-10.86	54.00	15.27	150	340	Horizontal
3	4961.39614	40.85	-8.68	54.00	13.15	150	40	Horizontal
4	7440.244024	47.11	-3.15	54.00	6.89	150	160	Horizontal
5	11114.311431	46.75	4.13	54.00	7.25	150	130	Horizontal
6	15493.949395	47.32	3.31	54.00	6.68	150	100	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 6	Antenna Polarity	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1804.180418	36.43	-15.38	54.00	17.57	150	180	Vertical
2	3166.016602	39.00	-10.95	54.00	15.00	150	50	Vertical
3	4961.39614	43.51	-8.68	54.00	10.49	150	220	Vertical
4	7441.944194	47.97	-3.15	54.00	6.03	150	190	Vertical
5	11401.640164	48.65	2.97	54.00	5.35	150	240	Vertical
6	16233.523352	47.73	3.93	54.00	6.27	150	120	Vertical

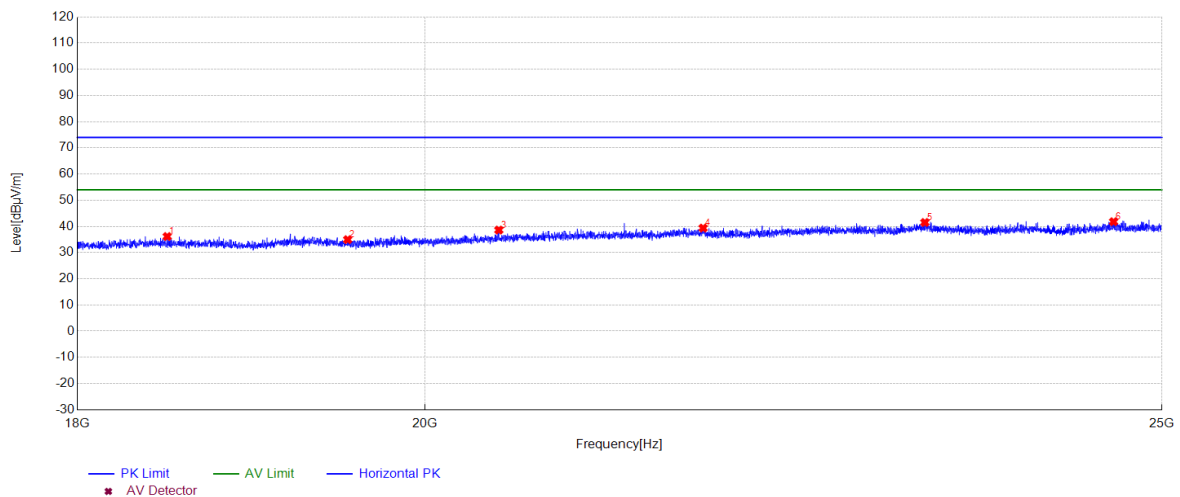
RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 6	Antenna Polarity	Horizontal



Suspected Data List

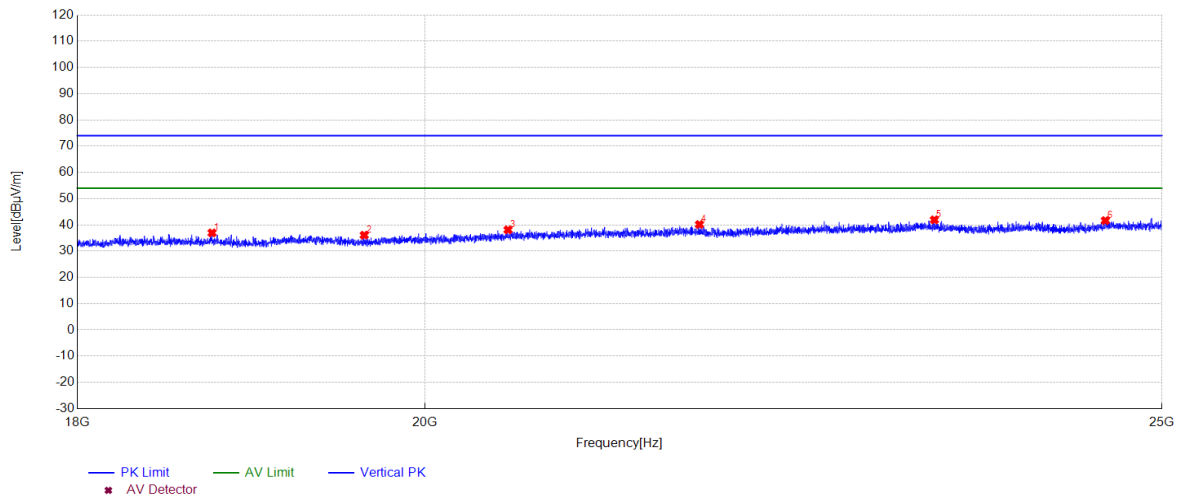
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18497.07101	36.15	-7.29	54.00	17.85	150	330	Horizontal
2	19536.21946	34.96	-7.03	54.00	19.04	150	160	Horizontal
3	20451.350193	38.61	-6.36	54.00	15.39	150	110	Horizontal
4	21756.536648	39.37	-4.73	54.00	14.63	150	200	Horizontal
5	23267.752536	41.51	-3.19	54.00	12.49	150	260	Horizontal
6	24635.947993	41.80	-3.01	54.00	12.20	150	310	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 6	Antenna Polarity	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18750.107158	36.95	-7.04	54.00	17.05	150	340	Vertical
2	19634.233462	36.07	-7.00	54.00	17.93	150	240	Vertical
3	20508.358337	38.11	-6.27	54.00	15.89	150	210	Vertical
4	21732.533219	40.14	-4.76	54.00	13.86	150	100	Vertical
5	23334.762109	41.91	-3.30	54.00	12.09	150	290	Vertical
6	24574.939277	41.64	-3.08	54.00	12.36	150	100	Vertical

RESULT: PASS

Note:

- Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin = Limit-Emission Level.
- The “Factor” value can be calculated automatically by software of measurement system.

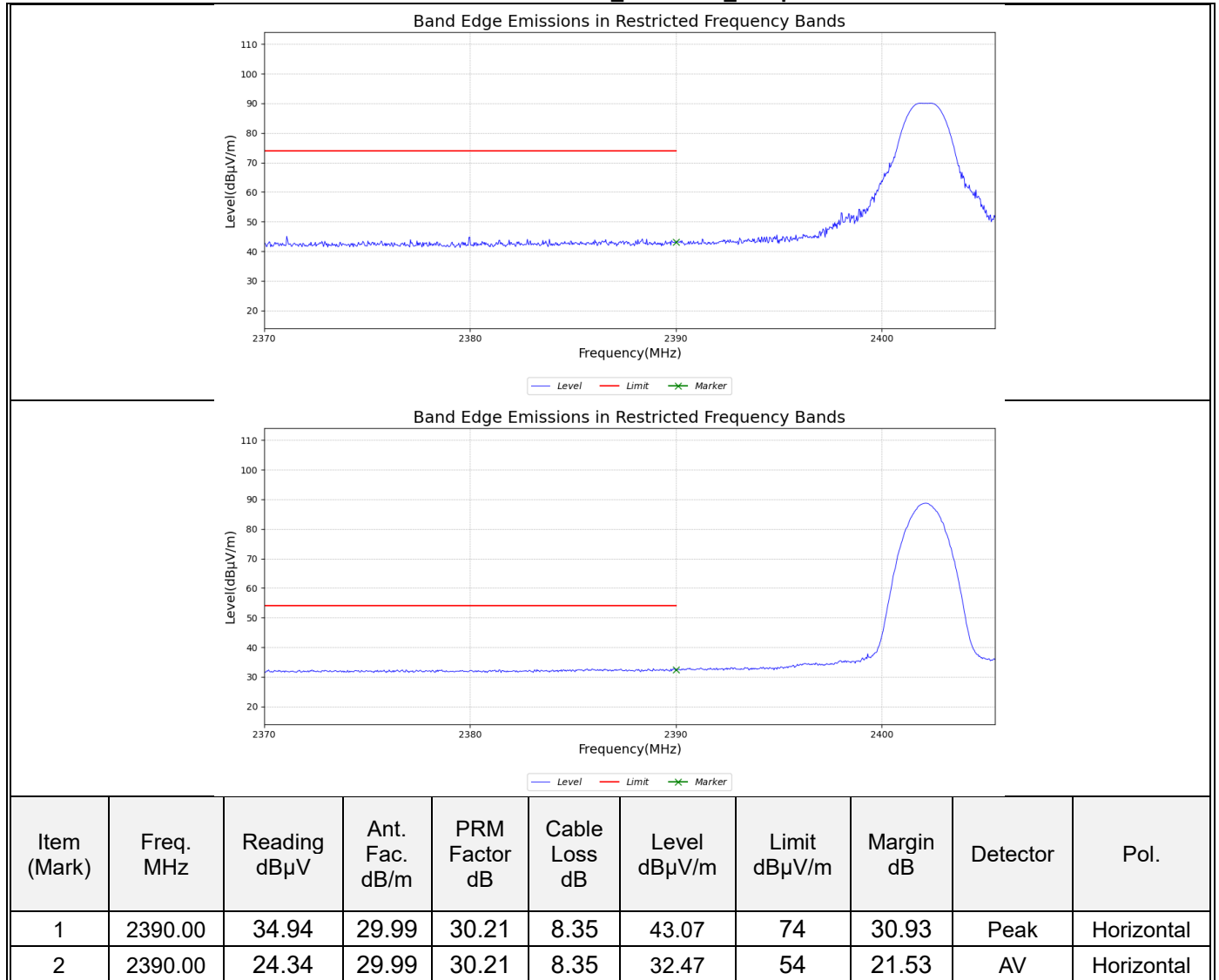
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Band Edge Emission Test Results for Restricted Bands

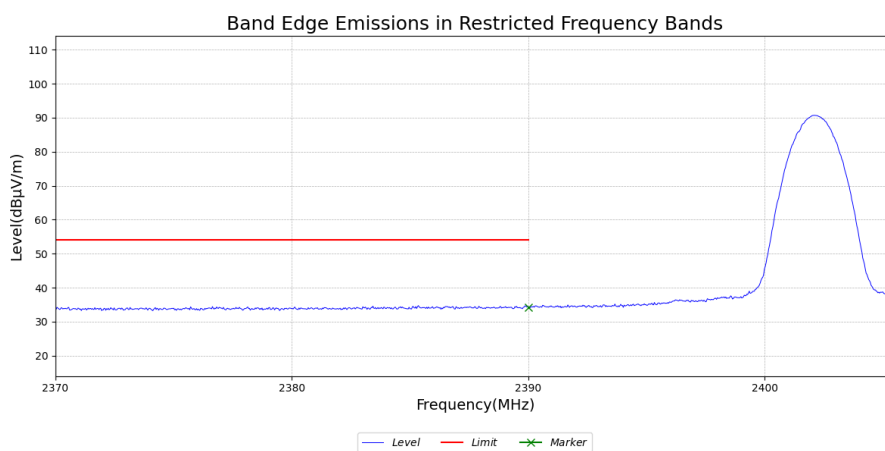
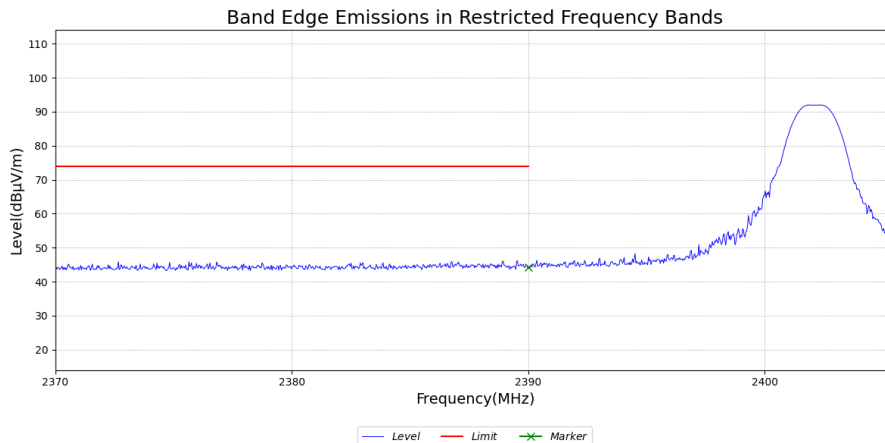
EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	24.5 °C	Relative Humidity	49 %
Pressure	960hPa	Test Voltage	DC 6V

Bluetooth Tx CH00_2402 MHz_1Mbps



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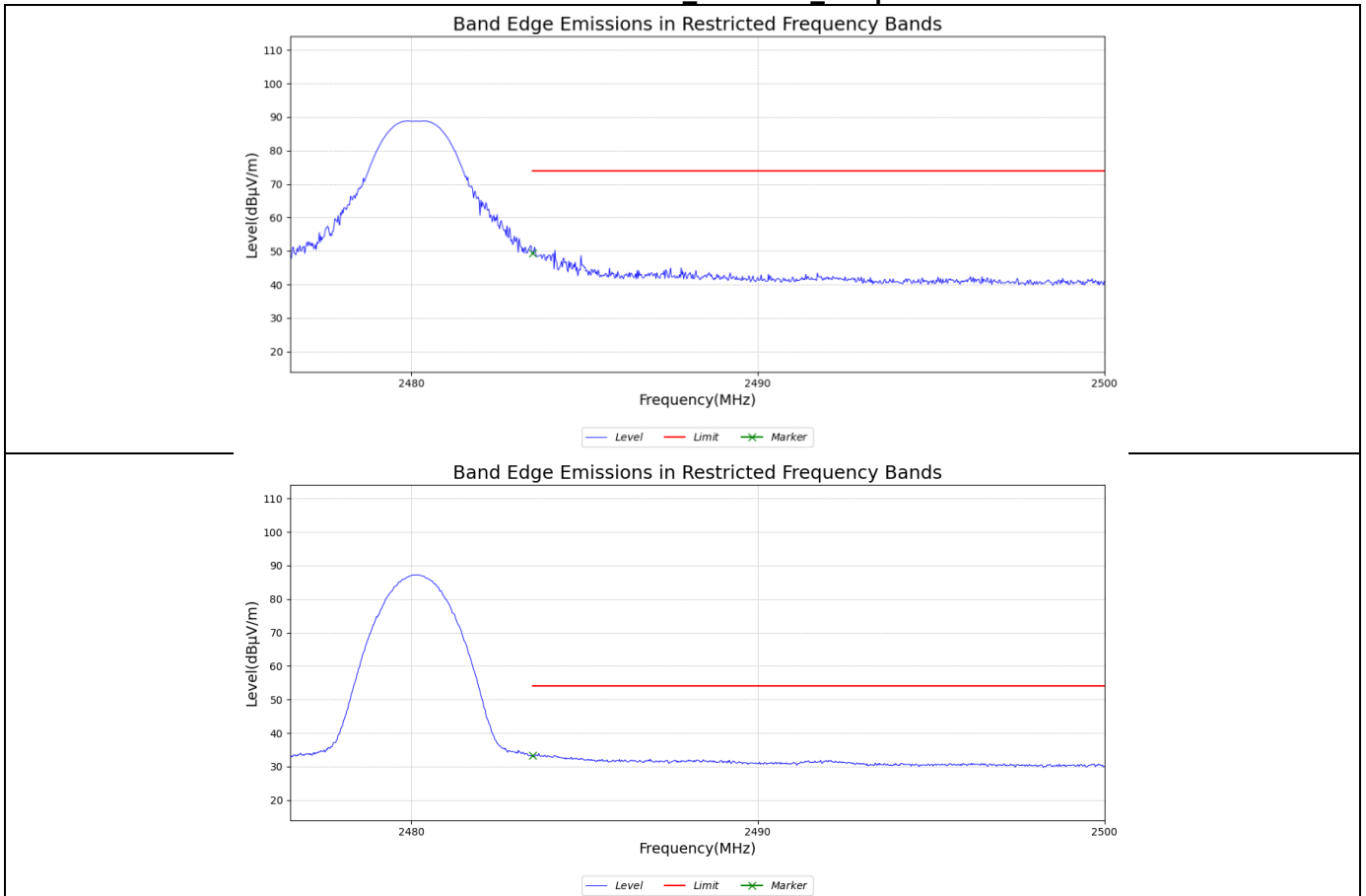
Bluetooth Tx CH00_2402 MHz_1Mbps



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	36.13	29.99	30.21	8.35	44.26	74	29.74	Peak	Vertical
2	2390.00	26.18	29.99	30.21	8.35	34.31	54	19.69	AV	Vertical

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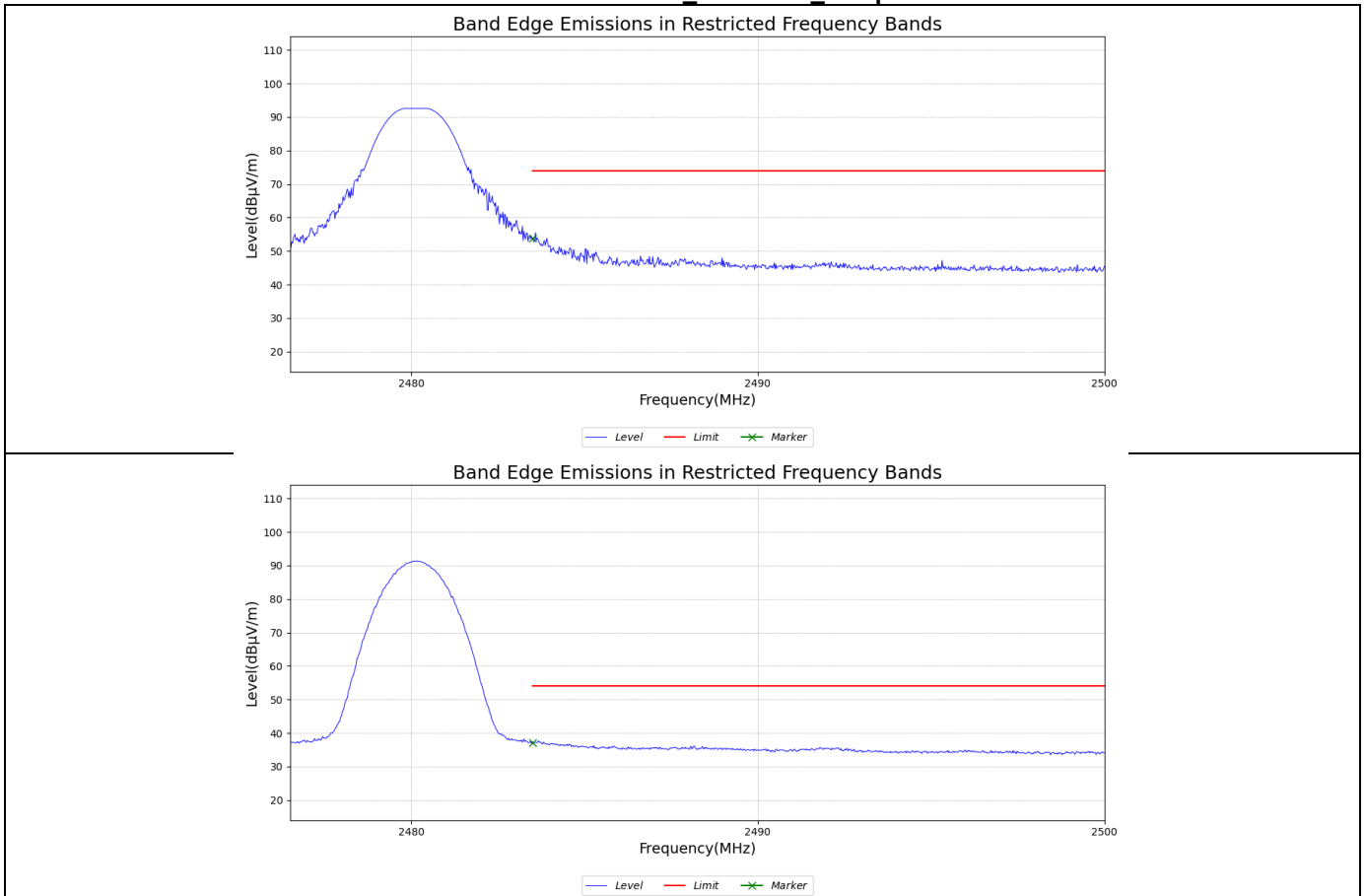
Bluetooth Tx CH39_2480 MHz_1Mbps



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	40.87	30.25	30.25	8.5	49.37	74	24.63	Peak	Horizontal
2	2483.50	24.85	30.25	30.25	8.5	33.35	54	20.65	AV	Horizontal

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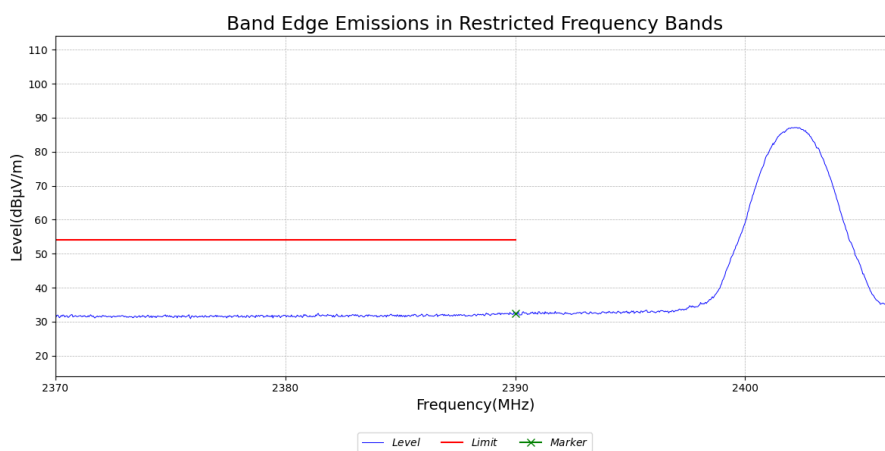
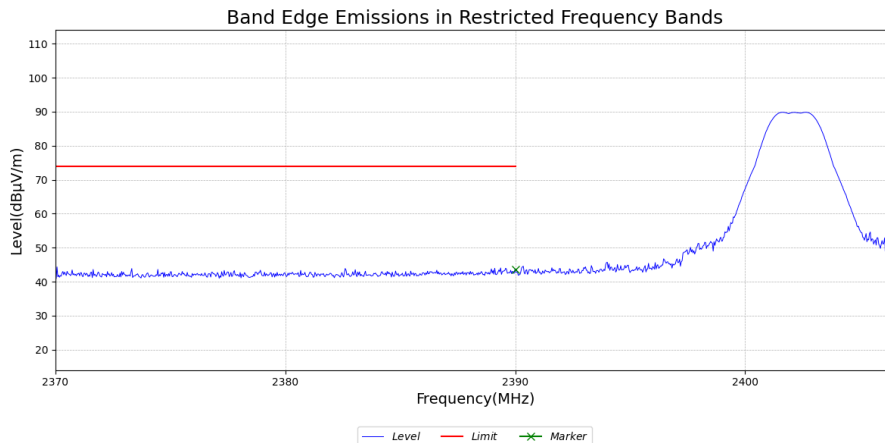
Bluetooth Tx CH39_2480 MHz_1Mbps



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	45.36	30.25	30.25	8.5	53.86	74	20.14	Peak	Vertical
2	2483.50	28.55	30.25	30.25	8.5	37.05	54	16.95	AV	Vertical

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Bluetooth Tx CH00_2402 MHz_2Mbps

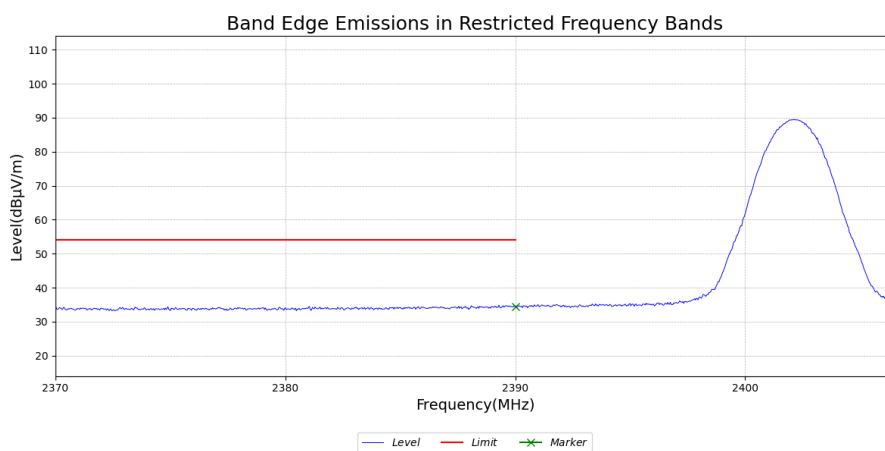
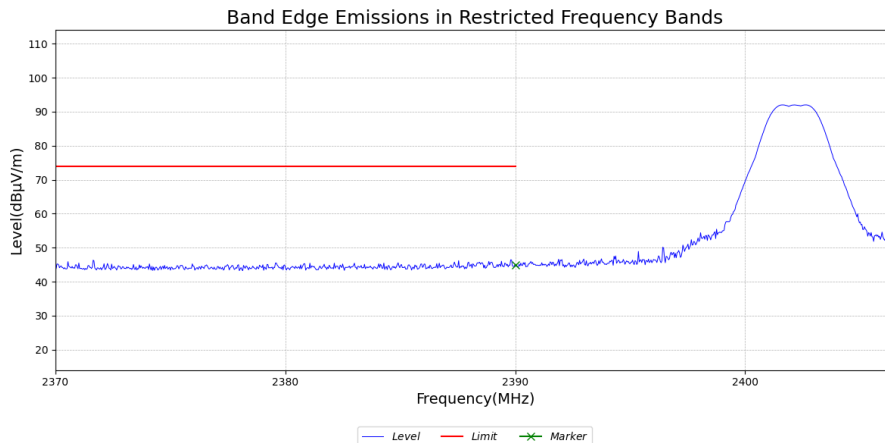


Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	35.50	29.99	30.21	8.35	43.63	74	30.37	Peak	Horizontal
2	2390.00	24.25	29.99	30.21	8.35	32.38	54	21.62	AV	Horizontal

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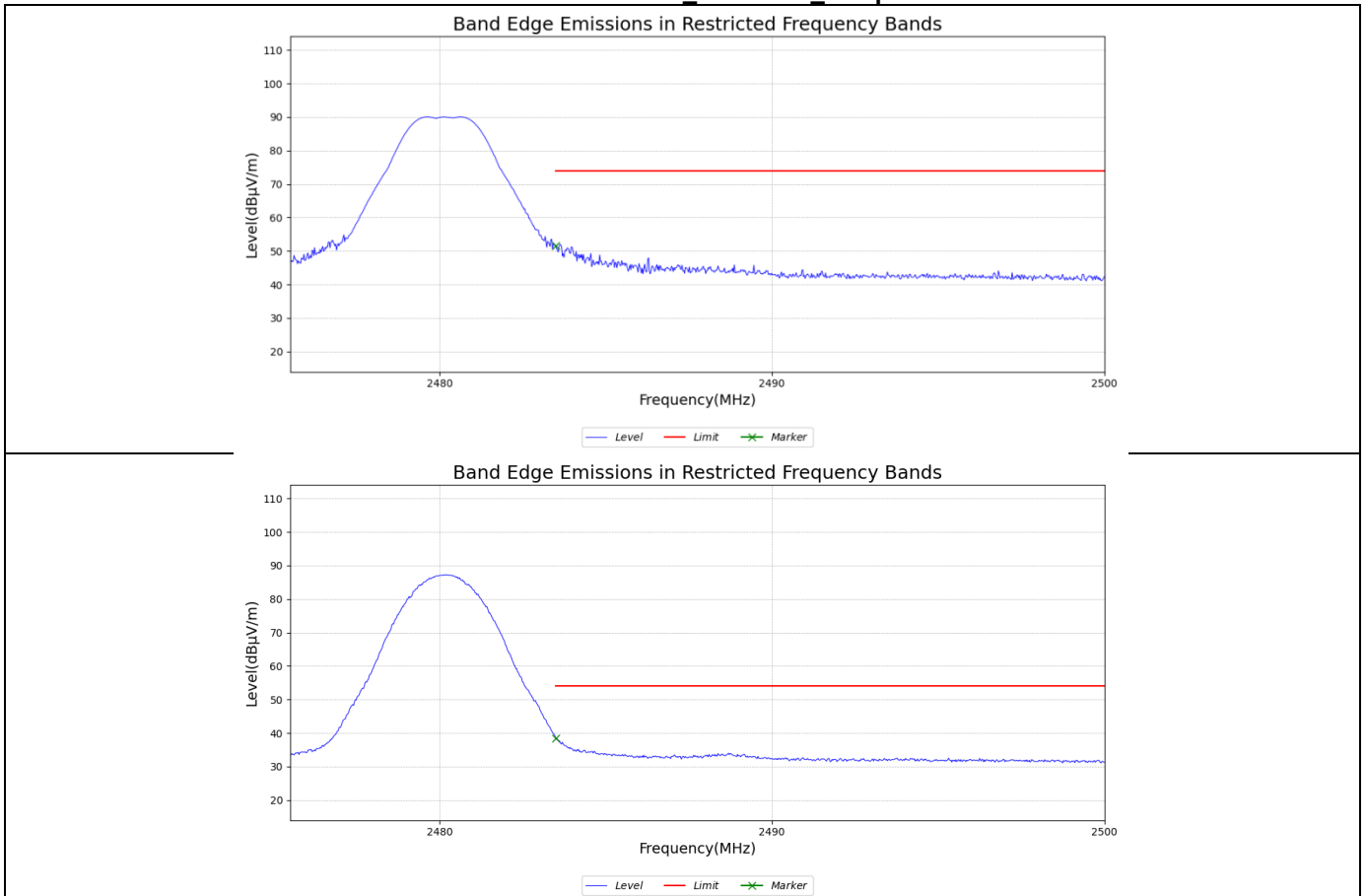
Bluetooth Tx CH00_2402 MHz_2Mbps



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	36.86	29.99	30.21	8.35	44.99	74	29.01	Peak	Vertical
2	2390.00	26.35	29.99	30.21	8.35	34.48	54	19.52	AV	Vertical

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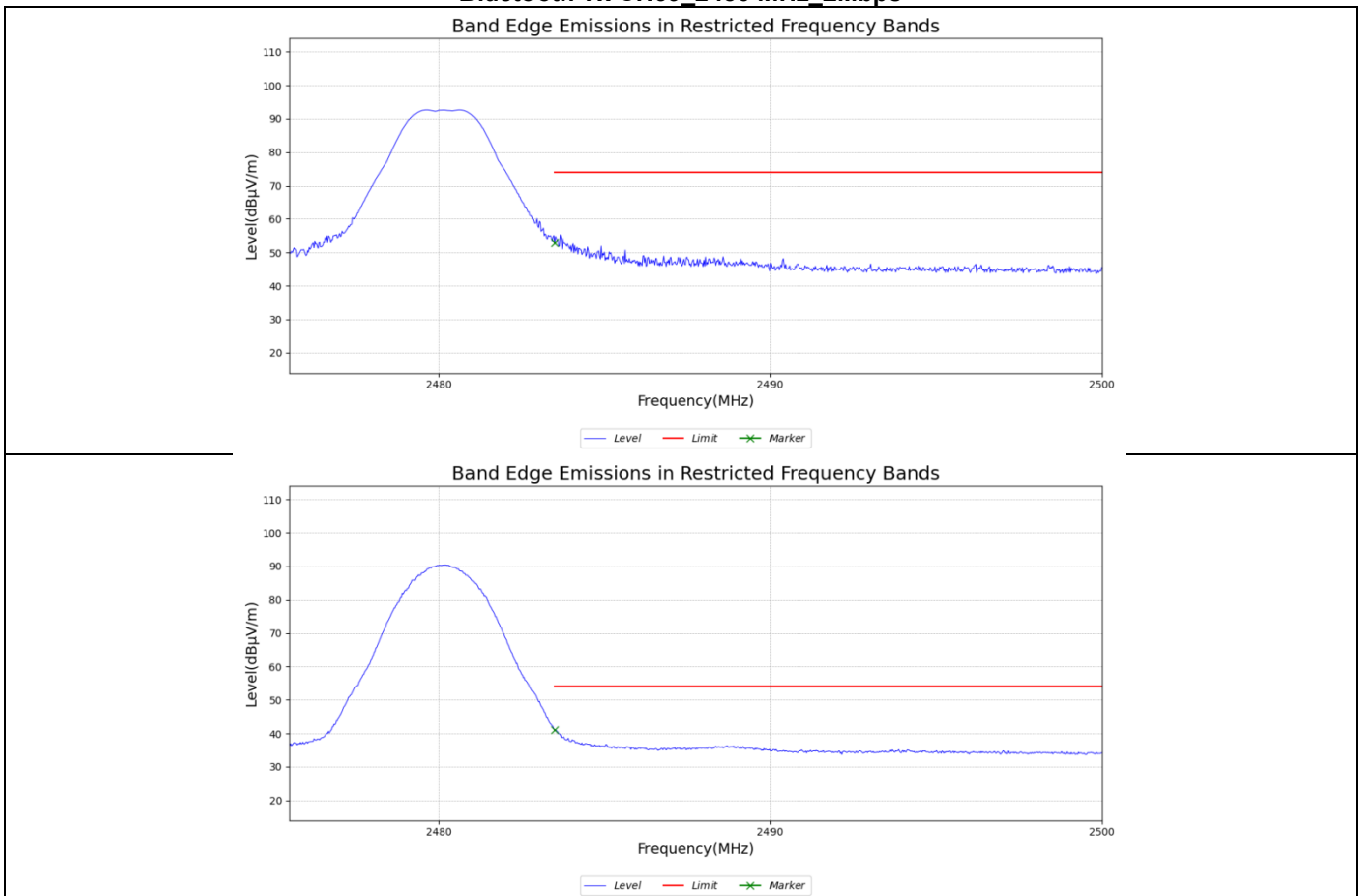
Bluetooth Tx CH39_2480 MHz_2Mbps



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	43.18	30.25	30.25	8.5	51.68	74	22.32	Peak	Horizontal
2	2483.50	29.96	30.25	30.25	8.5	38.46	54	15.54	AV	Horizontal

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Bluetooth Tx CH39_2480 MHz_2Mbps



Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	44.39	30.25	30.25	8.5	52.89	74	21.11	Peak	Vertical
2	2483.50	32.68	30.25	30.25	8.5	41.18	54	12.82	AV	Vertical

Remark:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. Margin = Limit- Emission Level.
3. The duty cycle coefficient has been corrected into the spectrum analyzer readings.

RESULT: PASS

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12. AC Power Line Conducted Emission Test

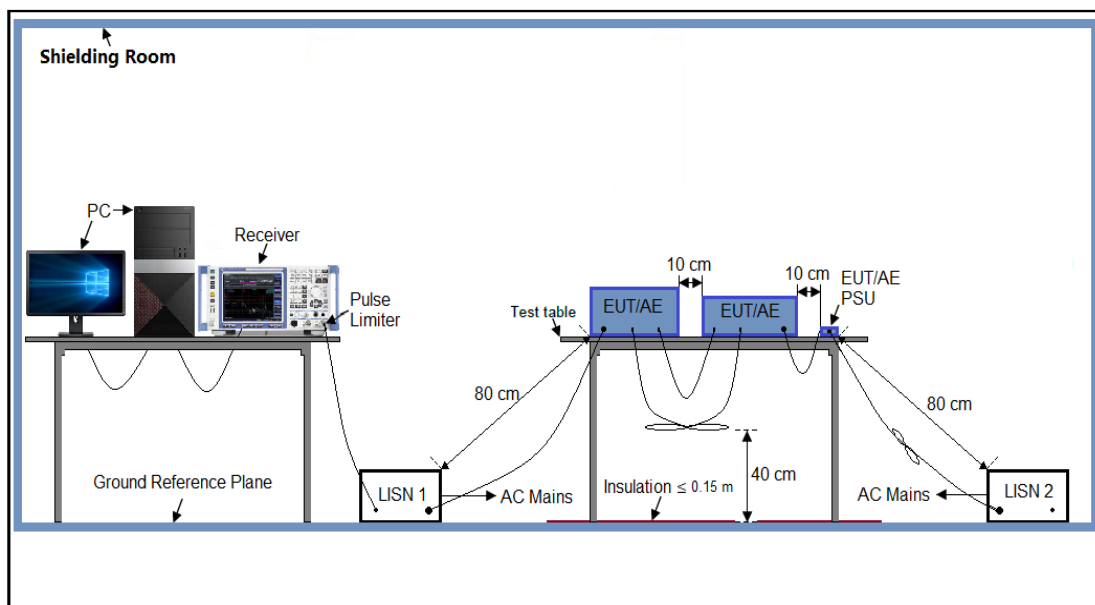
12.1 Measurement Limit

Frequency	Maximum RF Line Voltage	
	Q.P. (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

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

12.2 Measurement Setup (Block Diagram of Configuration)



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12.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 6V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side).
7. Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
8. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
9. During the above scans, the emissions were maximized by cable manipulation.
10. The test mode(s) were scanned during the preliminary test.
11. Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
3. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
4. The test data of the worst case condition(s) was reported on the Summary Data page.
5. A conducted emission is calculated by the following equation:
 - Measurement Level (dB μ V) = Receiver reading (dB μ V) + Transd (dB)
 - Transd (dB) = AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin = Limit-Level

12.5 Measurement Result:

N/A

Note: The product is designed to be powered by a direct current (DC) power source and does not have the conditions to connect to an alternating current (AC) power grid.

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16184251201AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC16184251201AP03

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

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