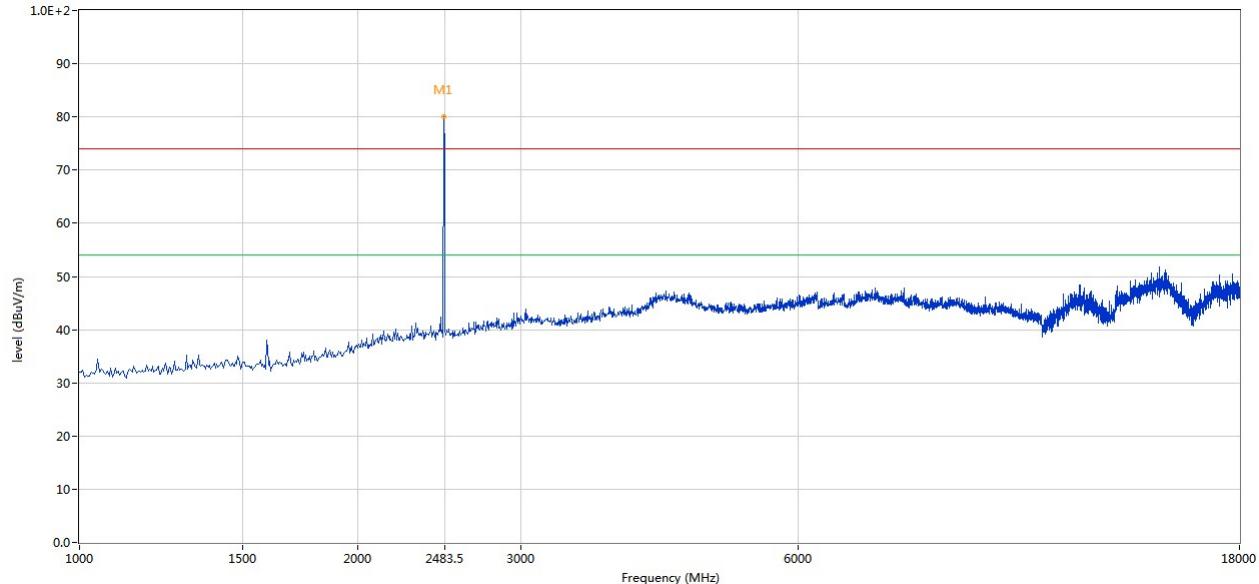




Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	80.13	-3.57	114.0	-33.87	Peak	269.00	100	Vertical	Pass

Note:

- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier
- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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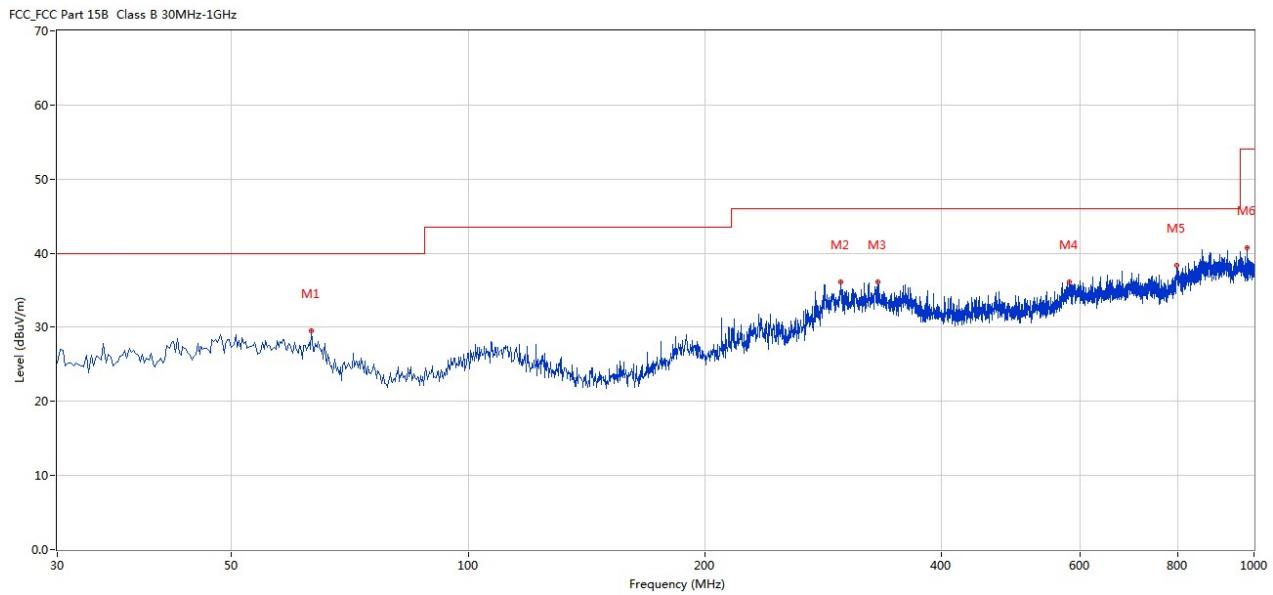
B. General Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.214	29.51	-5.71	40.0	10.49	Peak	345.00	100	Horizontal	Pass
2	297.653	36.10	-4.13	47.0	10.90	Peak	277.00	100	Horizontal	Pass
3	332.564	36.11	-3.18	47.0	10.89	Peak	245.00	100	Horizontal	Pass
4	582.762	36.07	1.72	47.0	10.93	Peak	234.00	100	Horizontal	Pass
5	797.078	38.30	3.19	47.0	8.70	Peak	42.00	100	Horizontal	Pass
6	979.393	40.72	4.63	47.0	6.28	Peak	275.00	100	Horizontal	Pass

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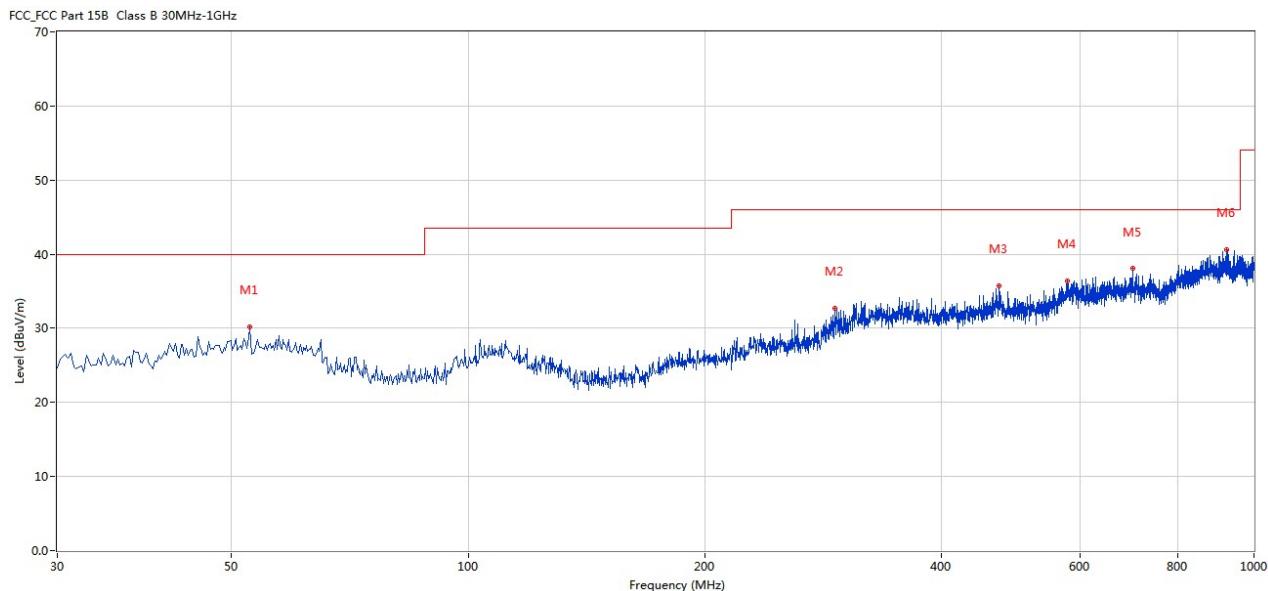


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.789	30.23	-4.99	40.0	9.77	Peak	78.00	100	Vertical	Pass
2	293.047	32.72	-4.23	47.0	14.28	Peak	291.00	100	Vertical	Pass
3	474.391	35.76	-0.34	47.0	11.24	Peak	130.00	100	Vertical	Pass
4	578.640	36.44	1.72	47.0	10.56	Peak	66.00	100	Vertical	Pass
5	701.315	38.04	2.56	47.0	8.96	Peak	291.00	100	Vertical	Pass
6	921.692	40.66	5.54	47.0	6.34	Peak	188.00	100	Vertical	Pass

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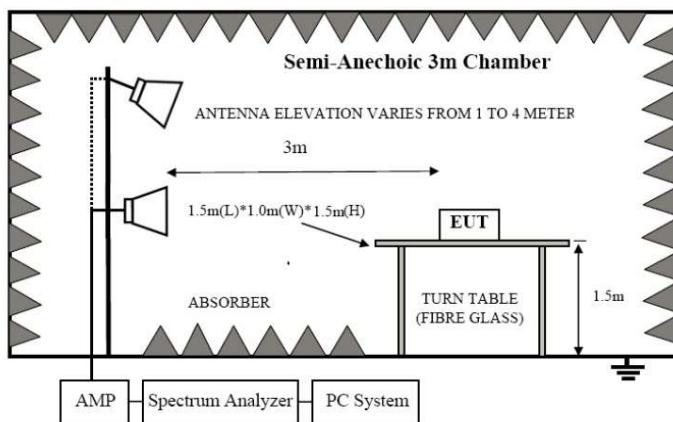


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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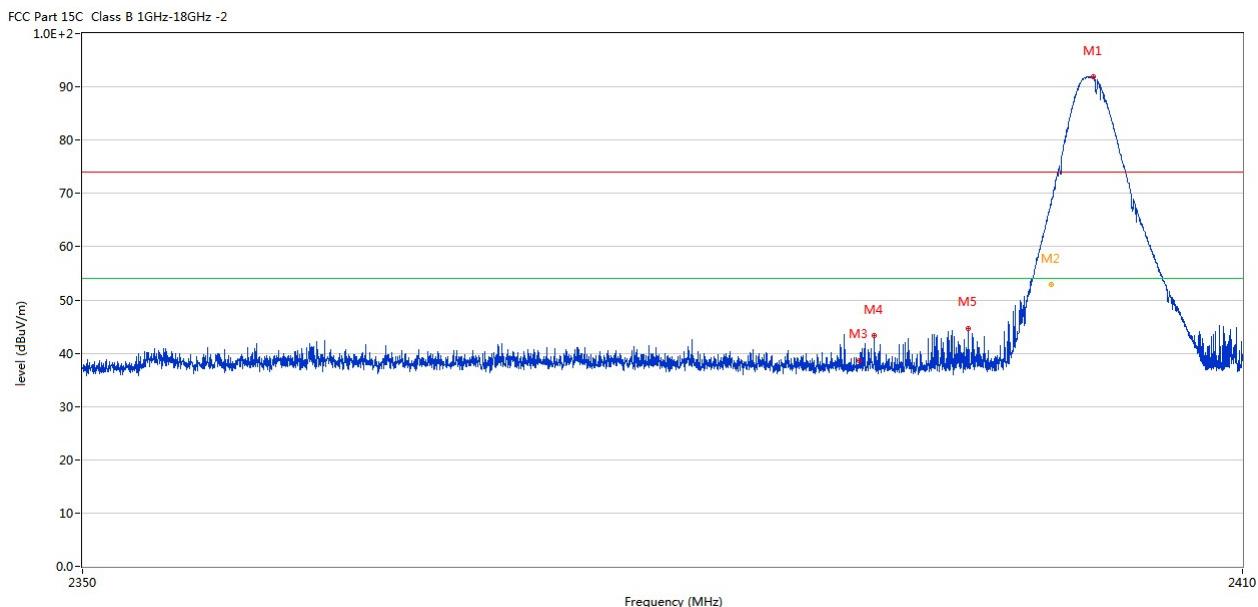
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7.6 Test Result

Product:	3 MODES CONNECTION GAMING MOUSE	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.187	91.88	-3.57	74.0	17.88	Peak	1.00	100	Horizontal	N/A
2	2400.012	68.59	-3.57	74.0	-5.41	Peak	231.00	100	Horizontal	Pass
2**	2400.012	52.96	-3.57	54.0	-1.04	AV	231.00	100	Horizontal	Pass
3	2390.010	38.55	-3.53	74.0	-35.45	Peak	0.00	100	Horizontal	Pass
4	2390.805	43.28	-3.53	74.0	-30.72	Peak	159.00	100	Horizontal	Pass
5	2395.694	44.67	-3.55	74.0	-29.33	Peak	221.00	100	Horizontal	Pass

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Product:	3 MODES CONNECTION GAMING MOUSE		Detector	Vertical						
Mode	Keeping Transmitting		Test Voltage	DC3.7V						
Temperature	24 deg. C,		Humidity	56% RH						
Test Result:	Pass		--	--						
FCC Part 15C Class B 1GHz-18GHz -2										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.157	80.04	-3.57	74.0	6.04	Peak	276.00	100	Vertical	N/A
2	2400.012	56.40	-3.57	74.0	-17.60	Peak	281.00	100	Vertical	Pass
2**	2400.012	41.31	-3.57	54.0	-12.69	AV	281.00	100	Vertical	Pass
3	2390.040	37.87	-3.53	74.0	-36.13	Peak	82.00	100	Vertical	Pass
4	2391.930	49.25	-3.54	74.0	-24.75	Peak	108.00	100	Vertical	Pass
5	2394.359	49.14	-3.55	74.0	-24.86	Peak	114.00	100	Vertical	Pass

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Product:	3 MODES CONNECTION GAMING MOUSE	Polarity	Horizontal							
Mode	Keeping Transmitting	Test Voltage	DC3.7V							
Temperature	24 deg. C,	Humidity	56% RH							
Test Result:	Pass	--	--							
FCC Part 15C Class B 1GHz-18GHz -2										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.122	90.77	-3.57	74.0	16.77	Peak	277.00	100	Horizontal	N/A
2	2483.500	55.13	-3.57	74.0	-18.87	Peak	272.00	100	Horizontal	Pass
2**	2483.500	42.09	-3.57	54.0	-11.91	AV	272.00	100	Horizontal	Pass

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Product:	3 MODES CONNECTION GAMING MOUSE		Detector	Vertical						
Mode	Keeping Transmitting		Test Voltage	DC3.7V						
Temperature	24 deg. C,		Humidity	56% RH						
Test Result:	Pass		--	--						
FCC Part 15C Class B 1GHz-18GHz -2										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.883	79.78	-3.57	74.0	5.78	Peak	276.00	100	Vertical	N/A
2	2483.500	44.93	-3.57	74.0	-29.07	Peak	276.00	100	Vertical	Pass

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.
 2. The two modulation modes of GFSK and Pi/4D-QPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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8.0 Antenna Requirement

Applicable Standard

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 shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain 0dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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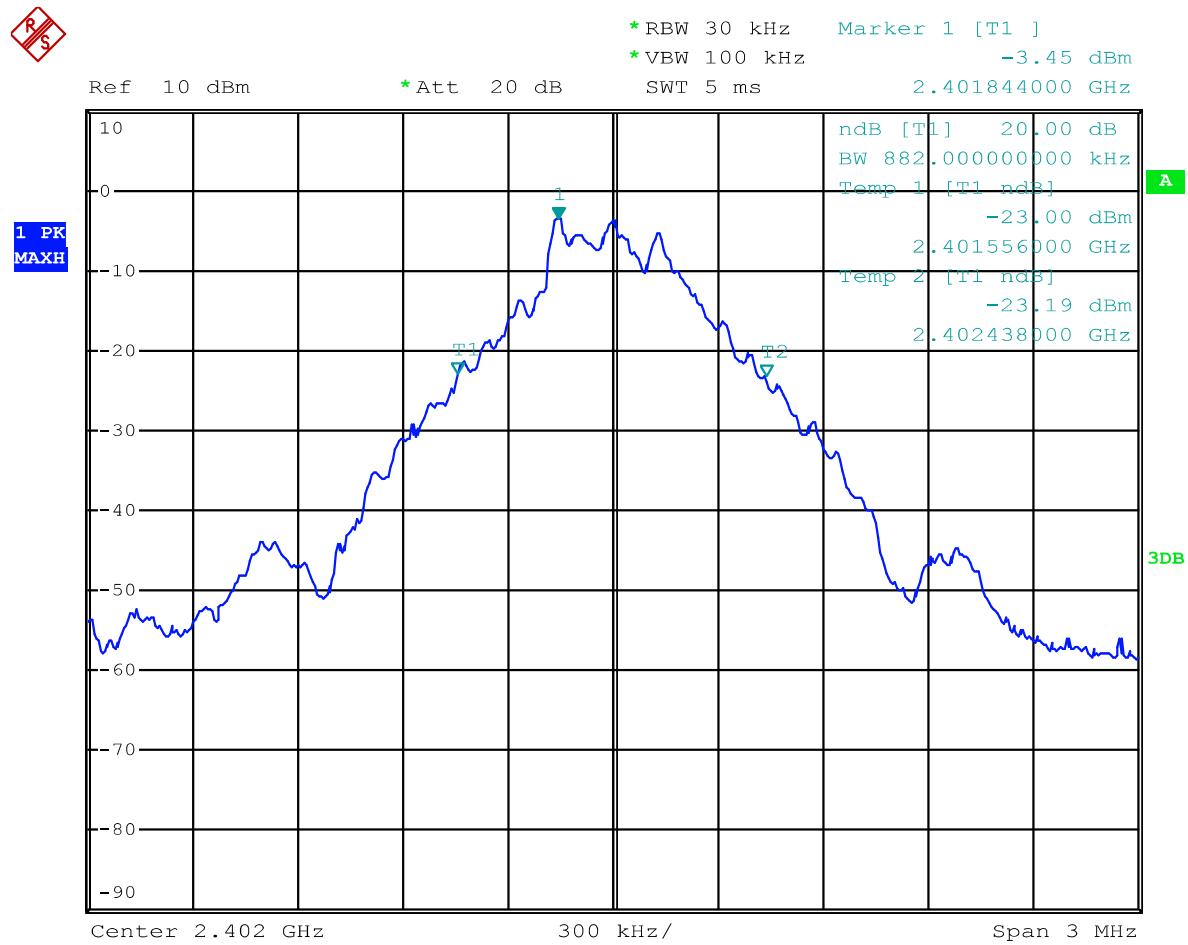
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9.0 20dB Bandwidth Measurement

GFSK Mode

Product:	3 MODES CONNECTION GAMING MOUSE	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	882kHz	--	--

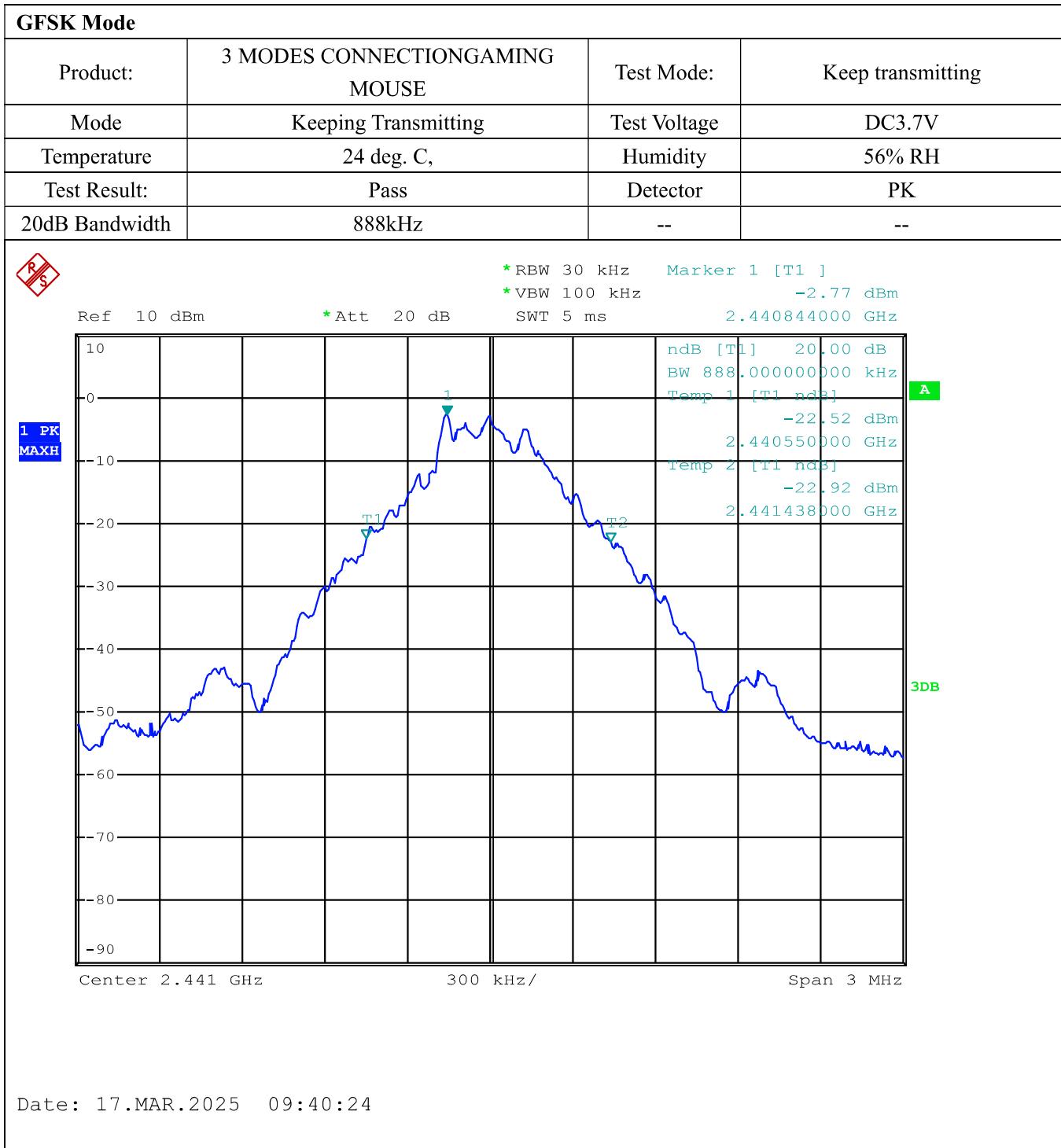


Date: 17.MAR.2025 09:26:42

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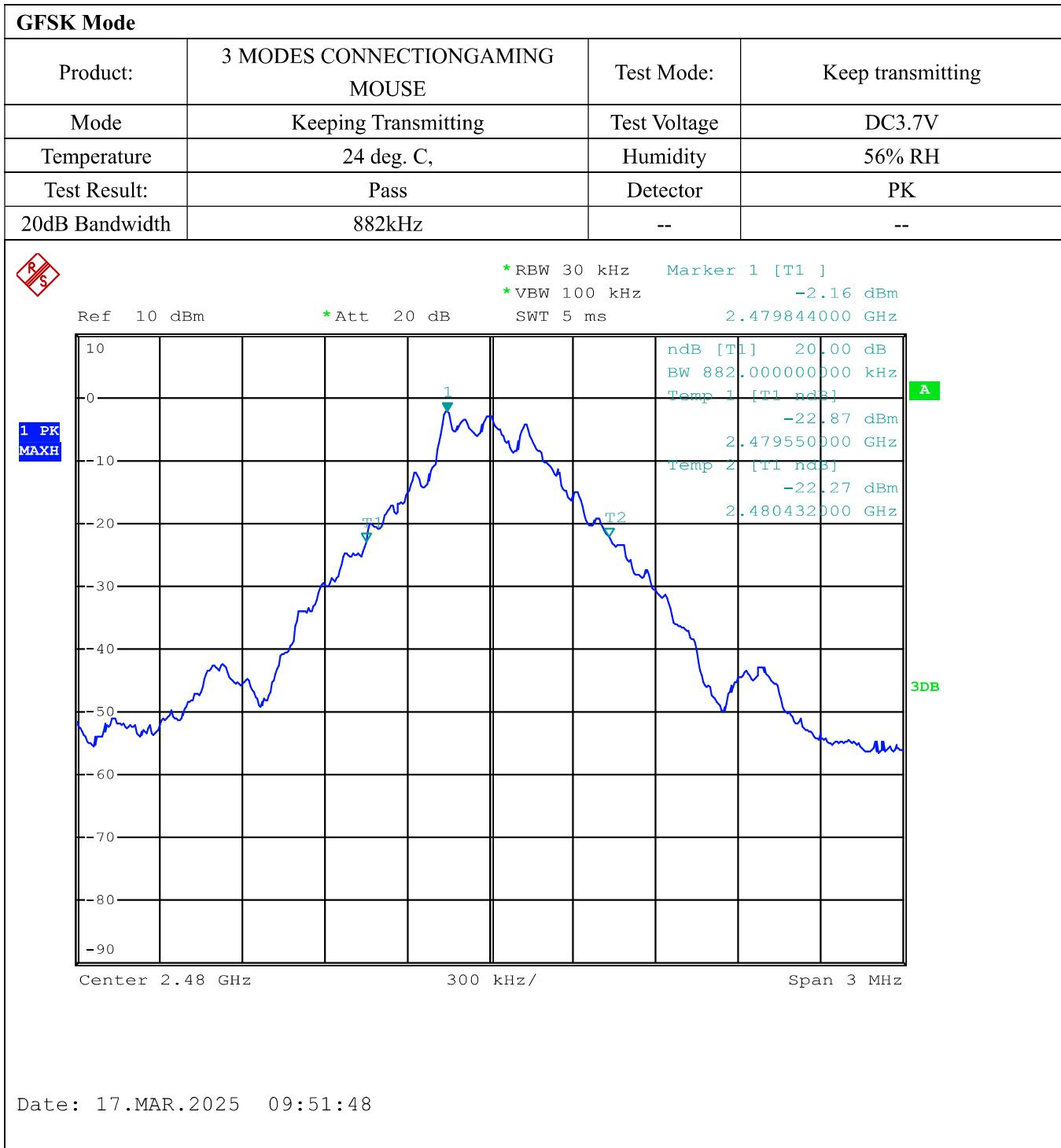
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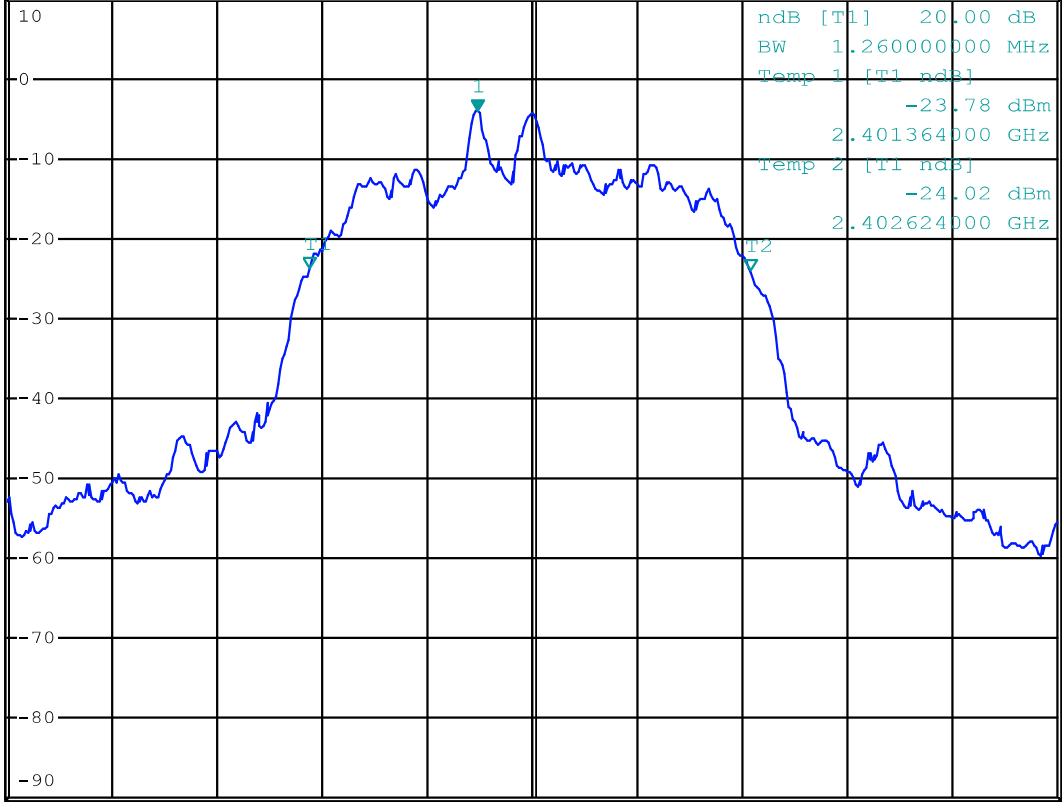


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Π/4DQPSK Mode			
Product:	3 MODES CONNECTION BACKLIGHTING GAMING KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.260MHz	--	--
 <p> * RBW 30 kHz Marker 1 [T1] -4.00 dBm * VBW 100 kHz Ref 10 dBm Att 20 dB SWT 5 ms 2.401844000 GHz 1 PK MAXH  </p>			
<p>Date: 17.MAR.2025 10:09:30</p>			

The report refers only to the sample tested and does not apply to the bulk.

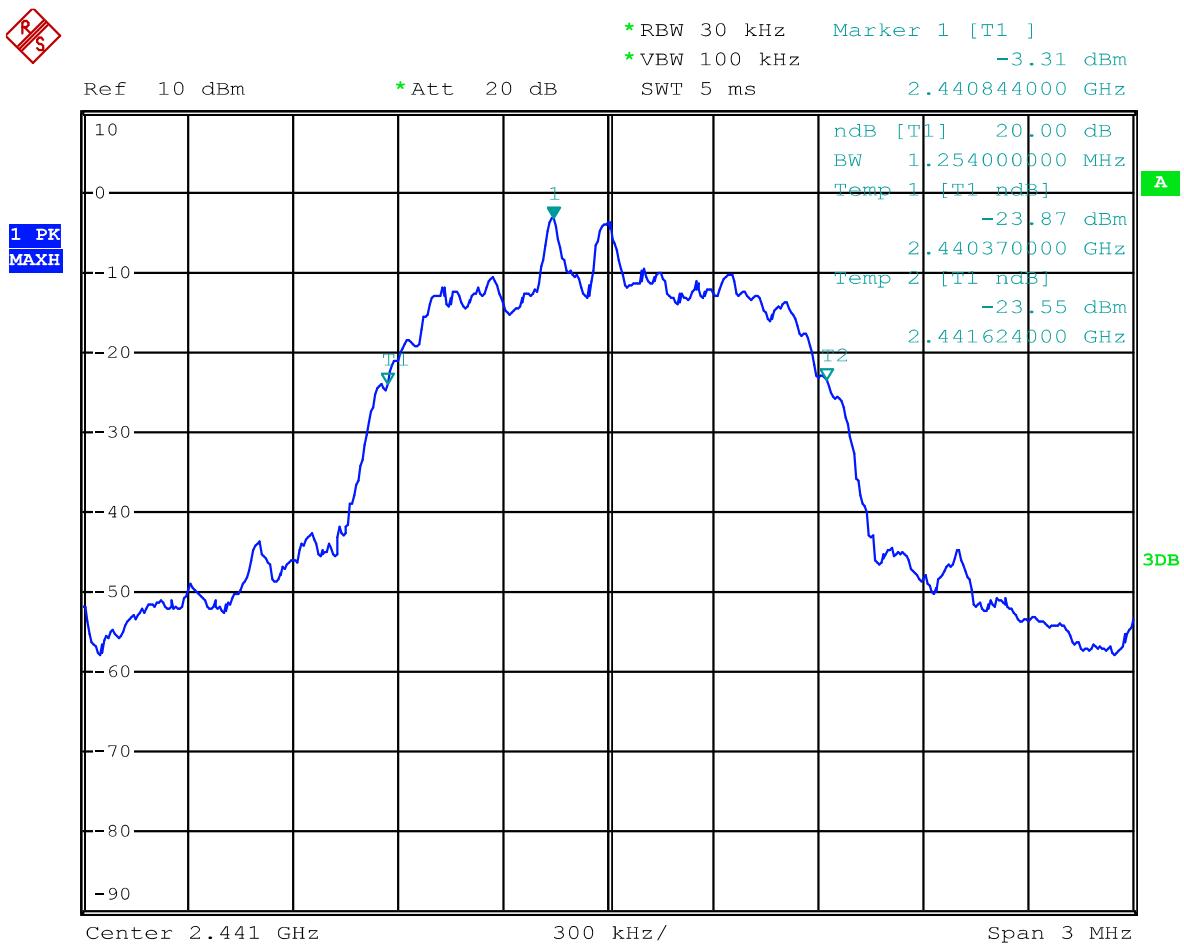
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Π/4DQPSK Mode

Product:	3 MODES CONNECTION BACKLIGHTING GAMING KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.254MHz	--	--



Date: 17.MAR.2025 09:59:43

The report refers only to the sample tested and does not apply to the bulk.

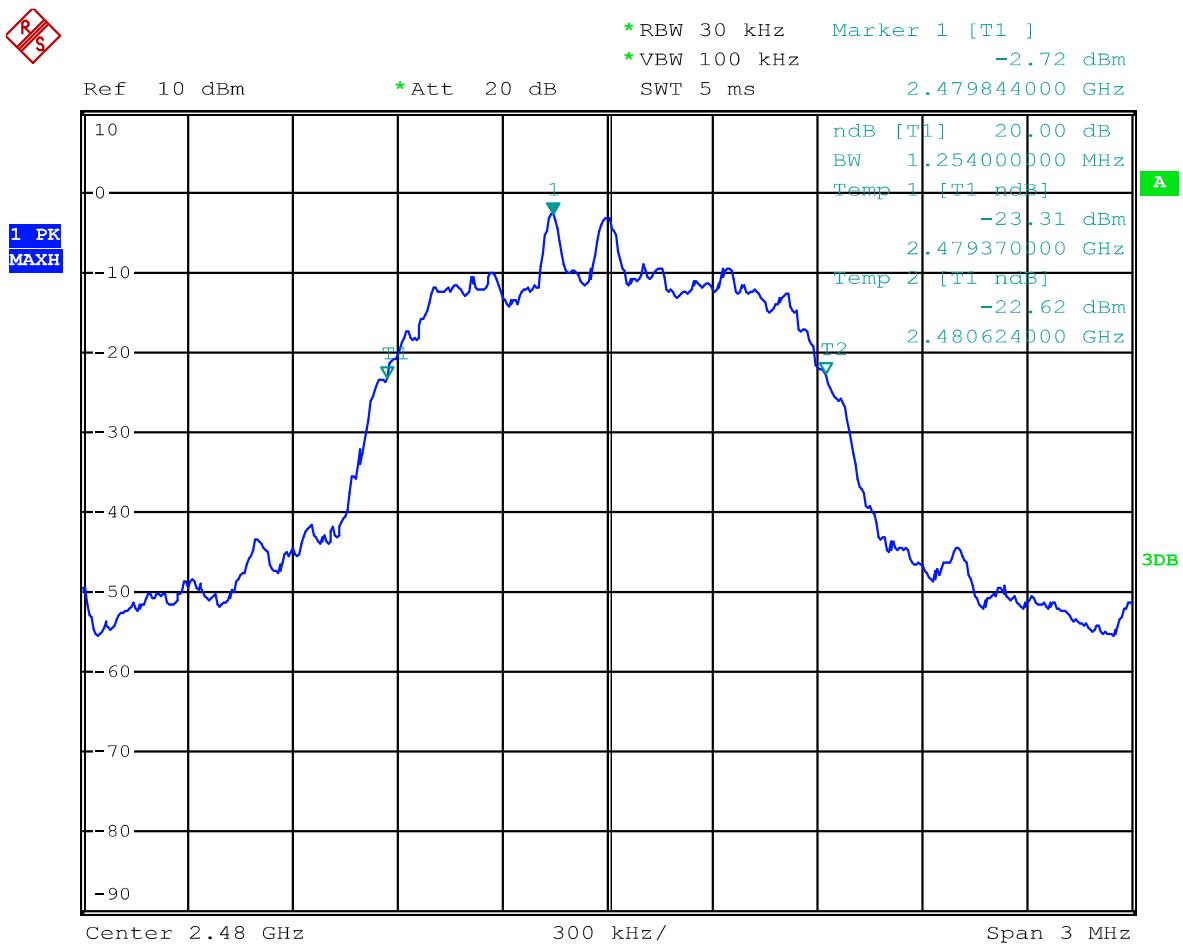
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Π/4DQPSK Mode

Product:	3 MODES CONNECTION BACKLIGHTING GAMING KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.254MHz	--	--



Date: 17.MAR.2025 09:57:17

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10.0 FCC ID Label

FCC ID: TUVDS-2880E

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View--



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Radiated emission test view



Photographs – EUT

Please refer test report TW2501071-01E

--End of the report--

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