



# **FCC Radio Test Report**

FCC ID: RWO-RC30035302

This report concerns: Class II Permissive Change

**Project No.** : 2108C168

**Equipment**: Wireless Keyboard

Brand Name : RAZER
Test Model : RZ03-0411

Series Model : RZ03-0411XXXX-XXXX (X can be 0-9 or A-Z)

**Applicant**: Razer Inc.

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Manufacturer : Razer (Asia-Pacific) Pte.,Ltd.

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Date of Receipt : Aug. 20, 2021

**Date of Test** : Sep. 28, 2021 ~ Nov. 15, 2021

**Issued Date** : Nov. 15, 2021

Report Version : R01

Test Sample : Sample No.: DG2021092787 for conducted, DG2021092789 for

radiated.

Standard(s) : FCC CFR Title 47, Part 15, Subpart C

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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ACCREDITED

TESTING CERT #5123.02

TESTING CERT #3125.0

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#### **Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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# **REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 03, 2021
R01	Revised report to address comments.	Nov. 15, 2021



# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C					
Standard(s) Section	Test Item	Test Result	Judgment	Remark	
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS		
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS		
15.247(a)(2)	Bandwidth		PASS		
15.247(b)(3)	Maximum Output Power	APPENDIX E	PASS		
15.247(d)	Conducted Spurious Emission		PASS		
15.247(e)	Power Spectral Density		PASS		
15.203	Antenna Requirement		PASS	Note(2)	

#### Note:

- (1) "N/A" denotes test is not applicable to this device.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (3) The RF module of this Wireless Keyboard has been tested and certified. Please refer to the module report as listed in the below table for the test results of the RF module.

RF Module Model	Module Function	Report Number	Standard
	Bluetooth LE	BTL-FCCP-1-2005C131	FCC Part15, Subpart C
RC30-035302	2.4G SRD	BTL-FCCP-2-2005C131	(15.247) ANSI C63.10-2013

Based on the RF module the antennas for this Wireless Keyboard were updated as below table:

Ant. Part Number	Туре	Antenna Mfr.	Antenna Gain (dBi)
RFPCA371112IMAB301	PCB	PSA	4.75

Thus, the radiated spurious emissions, AC Power Line Conducted Emissions and output power were evaluated and recorded in this report. For the test results of all other test items please refer to above module test report.



#### 1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

#### 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

#### B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9kHz ~ 30MHz	ı	3.02
		30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	Н	3.32
	CISPR	200MHz ~ 1,000MHz	V	4.08
DG-CB03		200MHz ~ 1,000MHz	Н	3.96
		1GHz ~ 6GHz	ı	3.80
		6GHz ~ 18GHz	ı	4.82
		18GHz ~ 26.5GHz	ı	3.62
		26.5GHz ~ 40GHz	-	4.00

#### C. Other Measurement:

Test Item	Uncertainty
Maximum Output Power	±0.95 dB
Temperature	±0.08 °C
Humidity	±1.5%

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

#### 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-9 kHz to 30 MHz	25°C	60%	DC 5V	Hayden Chen
Radiated Emissions-30 MHz to 1000 MHz	26°C	52%	DC 5V	Hayden Chen
Radiated Emissions-Above 1000 MHz	24°C	60%	DC 5V	Jakyri Wen
Maximum Output Power	25°C	50%	DC 5V	Grani Zhou



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Keyboard
Brand Name	RAZER
Test Model	RZ03-0411
Series Model	RZ03-0411XXXX-XXXX (X can be 0-9 or A-Z)
Model Difference(s)	The system's model name is RZ03-0411XXXX-XXXX (X can be 0-9 or A-Z), and the system is contain a Wireless Keyboard (Model name: RZ03-0411) and USB Dongle (Model name: DGRFG7).
Power Source	1# Supplied from USB port. 2# Supplied from battery. Model: 5936142P
Power Rating	1# 5V === 2.0A 2# 3.7V 4200mAh 15.54Wh
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	2Mbps
Max. Output Power	2Mbps: 3.76 dBm (0.0024 W)

# Note:

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

# 2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		



# 2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description	
Mode 1	TX Mode_2Mbps Channel 00/39/78	
Mode 2	TX Mode_2Mbps Channel 00	

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test		
Final Test Mode	Description	
Mode 2	TX Mode_2Mbps Channel 00	

Radiated emissions test - Below 1GHz		
Final Test Mode	Description	
Mode 2	TX Mode_2Mbps Channel 00	

Radiated emissions test - Above 1GHz		
Final Test Mode	Description	
Mode 1	TX Mode_2Mbps Channel 00/39/78	

Conducted test		
Final Test Mode	Description	
Mode 1	TX Mode_2Mbps Channel 00/39/78	

#### Note

- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 2Mbps Channel 00 is found to be the worst case and recorded.

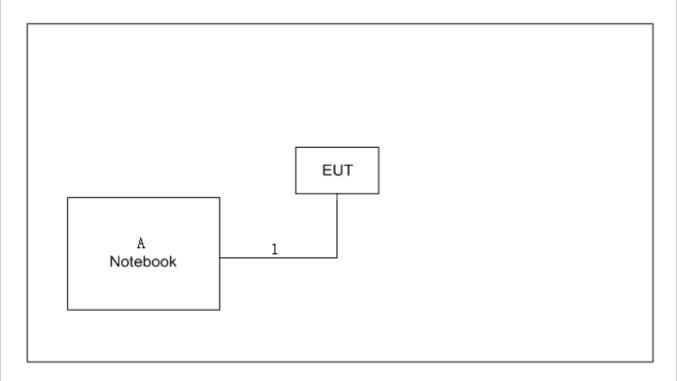
#### 2.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	FCCMTKTest_v0.00.02_20200109		
Frequency (MHz)	2402	2441	2480
2Mbps	4	4	4



# 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



# 2.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	Notebook	Lenovo	V310-14ISK	LR07GZNB

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	1.2m



#### 3. AC POWER LINE CONDUCTED EMISSIONS

#### **3.1 LIMIT**

Frequency of Emission (MHz)	Limit (dBμV)		
Frequency of Emission (MHZ)	Quasi-peak	Average	
0.15 - 0.5	66 to 56*	56 to 46*	
0.5 - 5.0	56	46	
5.0 - 30.0	60	50	

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

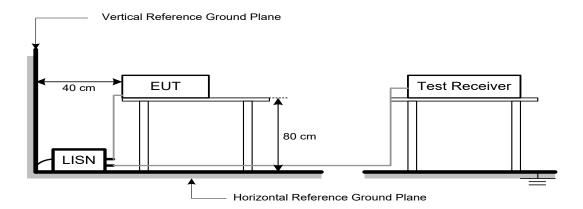
Receiver Parameters	Setting	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.



#### 3.4 TEST SETUP



# 3.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### 3.6 TEST RESULTS

Please refer to the APPENDIX A.

#### Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of <code>Note</code>. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.



# 4. RADIATED EMISSIONS

# 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

# LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

# LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
Frequency (MHz)	Peak	Average
Above 1000	74	54

#### Note:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



#### **4.2 TEST PROCEDURE**

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RBW / VBW	1 MHz / 3 MHz for PK value		
(Emission in restricted band)	1 MHz / 1/T Hz for AVG value		

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

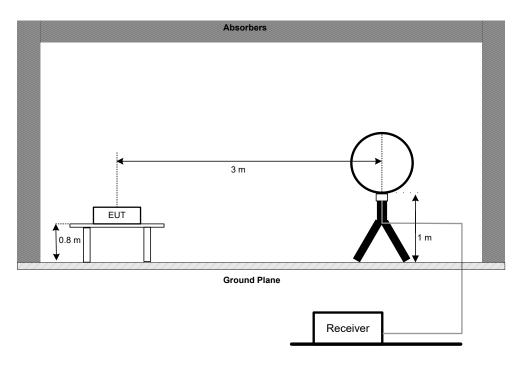


# 4.3 DEVIATION FROM TEST STANDARD

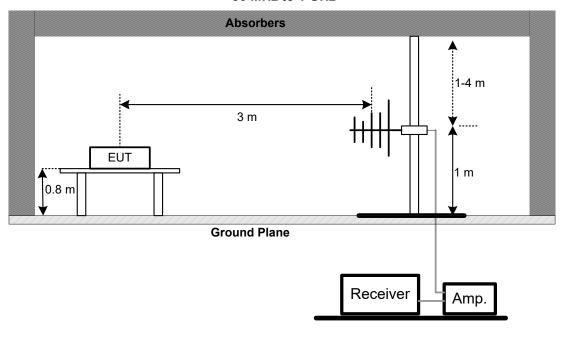
No deviation.

# 4.4 TEST SETUP

# 9 kHz to 30 MHz

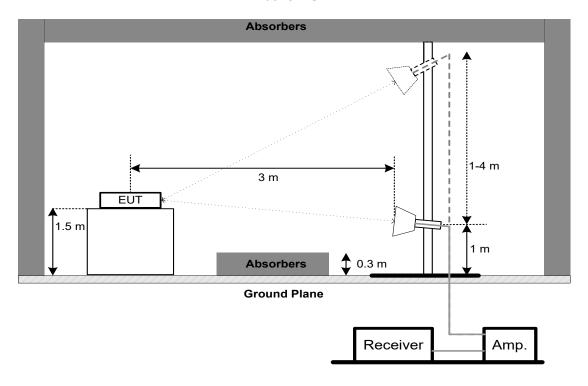


# 30 MHz to 1 GHz





#### **Above 1 GHz**



# 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

# 4.6 TEST RESULT - 9 kHz TO 30 MHz

Please refer to the APPENDIX B.

#### Remark:

- (1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

# 4.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

# 4.8 TEST RESULT - ABOVE 1000 MHz

Please refer to the APPENDIX D.

# Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.



# 5. MAXIMUM OUTPUT POWER

# **5.1 LIMIT**

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 watt or 30.00 dBm

#### **5.2 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting	
Span Frequency	≥ 3×RBW	
RBW	3 MHz	
VBW	3 MHz	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

#### 5.3 DEVIATION FROM STANDARD

No deviation.

# **5.4 TEST SETUP**



# **5.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

# **5.6 TEST RESULTS**

Please refer to the APPENDIX E.



# **6. MEASUREMENT INSTRUMENTS LIST**

	AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2022		
2	LISN	EMCO	3816/2	52765	Feb. 27, 2022		
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 27, 2022		
4	50Ω Terminator	SHX	TF5-3	15041305	Feb. 27, 2022		
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
6	Cable	N/A	RG223	12m	Mar. 09, 2022		
7	643 Shield Room	ETS	6*4*3m	N/A	N/A		

	Radiated Emissions - 9 kHz to 30 MHz							
Item	tem Kind of Equipment Manufacturer Type No. Serial No. Calibrated							
1	Loop Antenna	EM	EM-6876-1	230	Apr. 28, 2022			
2	Cable	N/A	RG 213/U	N/A	May 27, 2022			
3	MXE EMI Receiver	Keysight	N9038A	MY56400091	Feb. 27, 2022			
4	Measurement	Farad	EZ-EMC	N/A	N/A			
	Software		Ver.NB-03A1-01		, -			
5	966 Chambe Room	RM	9*6*6m	N/A	Jul. 24, 2022			

	Radiated Emissions - 30 MHz to 1 GHz						
Item	tem Kind of Equipment Manufacturer		Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 15, 2022		
2	Amplifier	HP	8447D	2944A08742	Feb. 28, 2022		
3	Receiver	Agilent	t N9038A MY52130039		Mar. 19, 2022		
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 20, 2022		
5	Controller	CT	SC100	N/A	N/A		
6	Controller	MF	MF-7802 MF780208416		N/A		
7	Measurement Software	- I Farad		N/A	N/A		
8	966 Chambe Room	Ver.NB-03A1-01		Jul. 24, 2022			

	Radiated Emissions - Above 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Double Ridged Guide Antenna	ETS	3115	75789	May 10, 2022		
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022		
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022		
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 28, 2022		
5	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022		
6	Controller	CT	SC100	N/A	N/A		
7	Controller	MF	MF-7802	MF780208416	N/A		
8	Cable	N/A	EMC104-SM-SM-6 000 N/A		Oct. 16, 2021 Oct. 15, 2022		
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
10	Filter	STI	STI15-9912	N/A	Jul. 10, 2022		
11	966 Chambe Room			N/A	Jul. 24, 2022		



	Maximum Output Power							
Item	m Kind of Equipment Manufacturer Type No. Serial No. Calibrated until							
1	1 Spectrum Analyzer R&S FSP40 100185 Jul.							
2	Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 07, 2022			
3	3 RF Cable Tongkaichuan N/A N/A N/A							
4	DC Block	Mini	N/A	N/A	N/A			

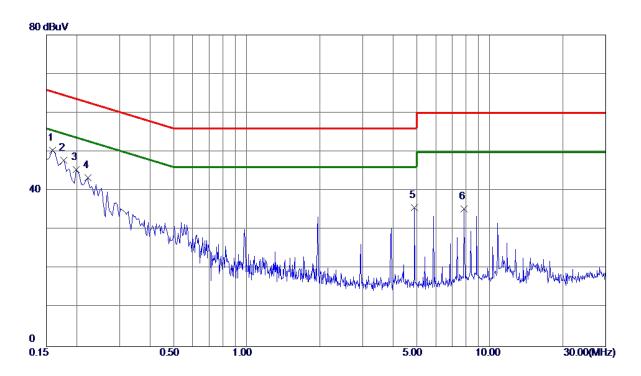
Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS





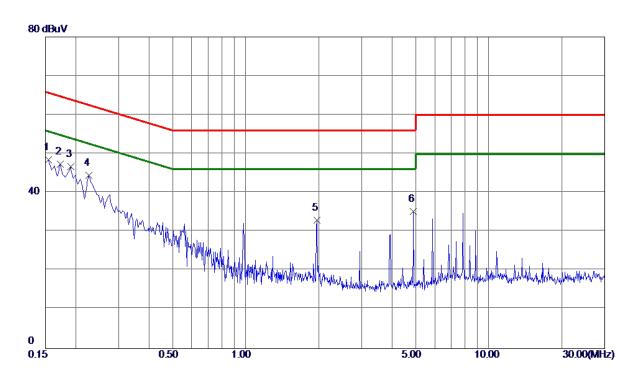


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1590	40. 74	9. 74	<b>50. 48</b>	65. 52	<b>-15.04</b>	Peak	
2	0. 1770	38. 05	9.84	47. 89	64. 63	-16. 74	Peak	
3	0. 1995	35. 60	9. 91	<b>45</b> . <b>5</b> 1	63. 63	-18. 12	Peak	
4	0. 2220	33. 45	9.89	43. 34	62.74	-19. 40	Peak	
5	4. 9064	25. 42	10. 27	35. 69	56. 00	-20. 31	Peak	
6	7.8495	24. 87	10. 50	35. 37	60.00	-24. 63	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.







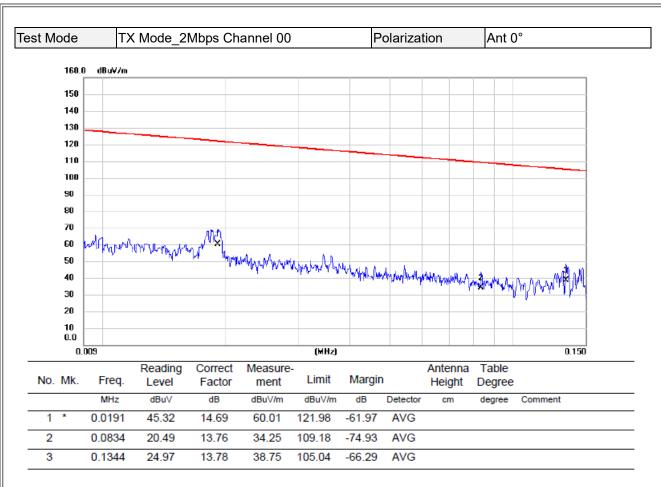
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1545	38. 68	9. 78	48. 46	65. 75	-17. 29	Peak	
2	0. 1725	37. 49	9. 91	47. 40	64. 84	-17. 44	Peak	
3	0. 1905	36. 75	9. 97	46. 72	64. 01	-17. 29	Peak	
4	0. 2265	34. 49	9. 99	44. 48	62. 58	-18. 10	Peak	
5	1. 9635	22. 58	10. 38	32. 96	56. 00	-23. 04	Peak	
6	4. 9064	24. 58	10. 61	35. 19	56.00	-20. 81	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



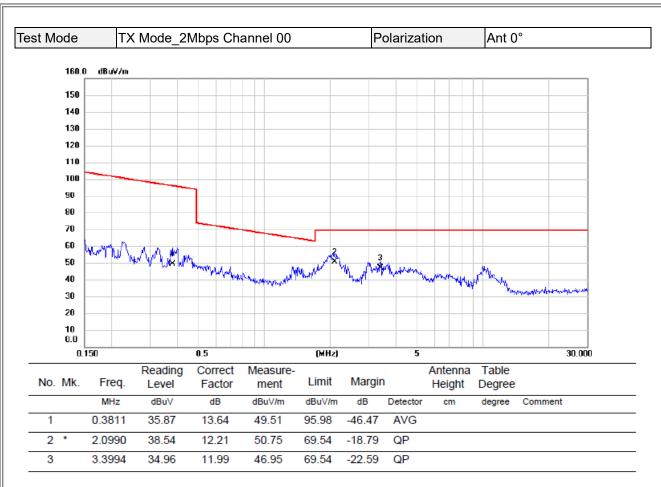
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	





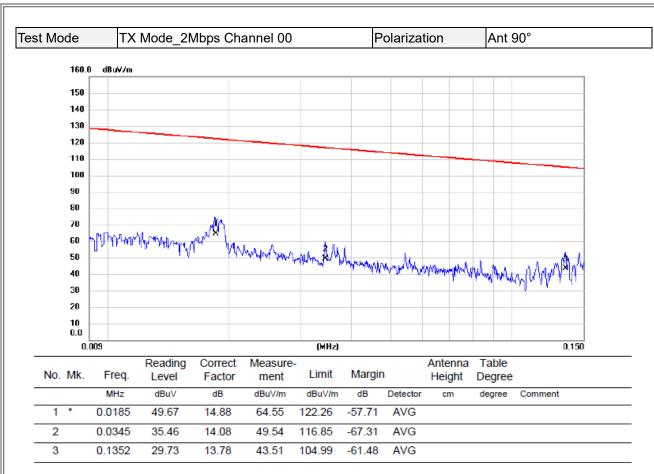
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





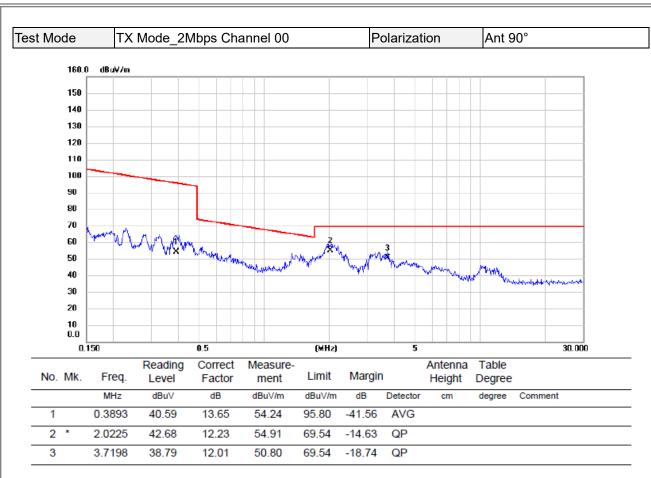
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



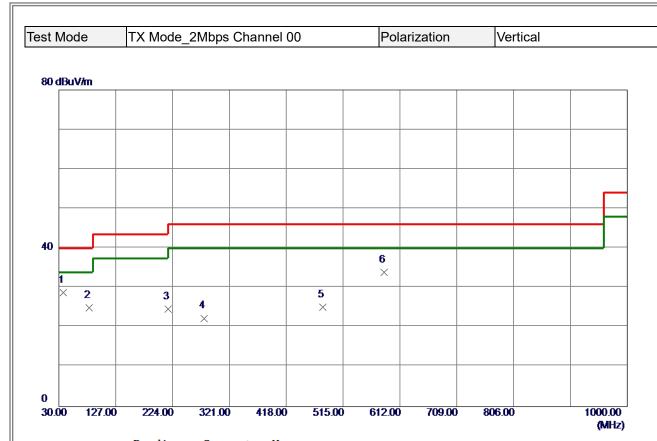


- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



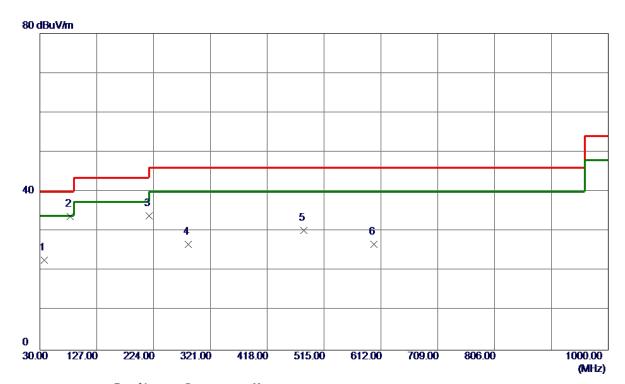


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	37. 7599	43. 53	-14. 71	28. 82	40.00	-11. 18	Peak	
2	81. 4100	43. 41	-18. 46	24. 95	40.00	-15. 05	Peak	
3	216. 2400	39. 65	<b>−14. 97</b>	24. 68	46.00	-21. 32	Peak	
4	278. 3200	33. 99	-11. 67	22. 32	46.00	-23. 68	Peak	
5	480. 0800	32. 06	-6. 89	25. 17	46.00	-20.83	Peak	
6	584. 8400	38. 93	-4. 96	33. 97	46.00	-12. 03	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.







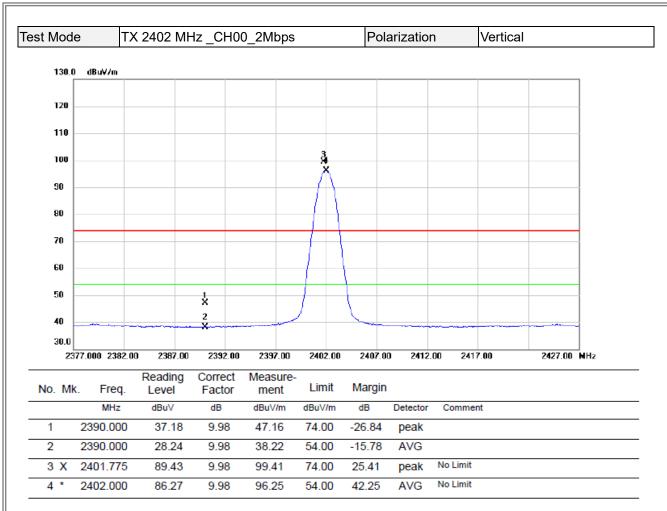
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	37. 7599	37. 44	-14. 71	22. 73	40.00	-17. 27	Peak	
2 *	81. 4100	52. 20	-18. 46	33. 74	40.00	-6. 26	Peak	
3	216. 2400	48. 87	-14. 97	33. 90	46.00	-12. 10	Peak	
4	283. 1700	38. 22	-11. 46	26. 76	46.00	-19. 24	Peak	
5	480. 0800	37. 12	-6. 89	30. 23	46. 00	-15. 77	Peak	
6	600. 3600	31. 31	<b>−4. 54</b>	26. 77	46.00	-19. 23	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



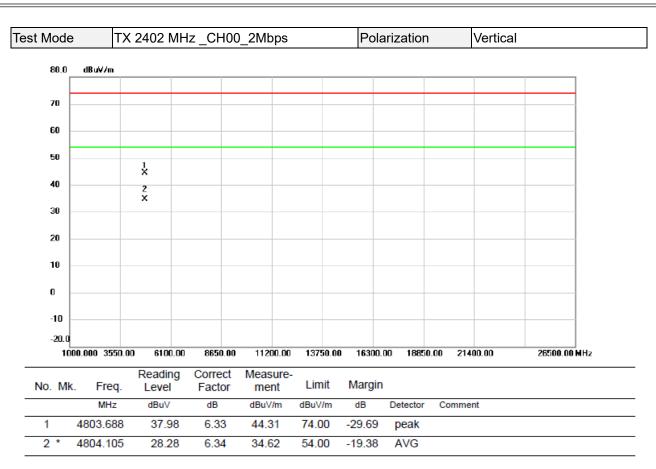
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ





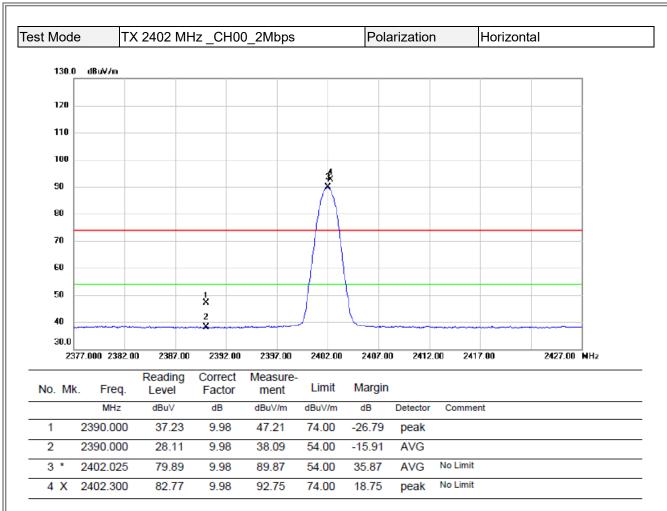
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





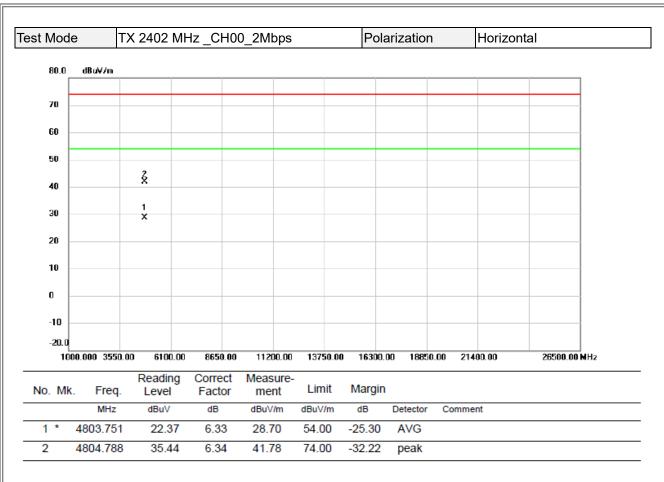
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





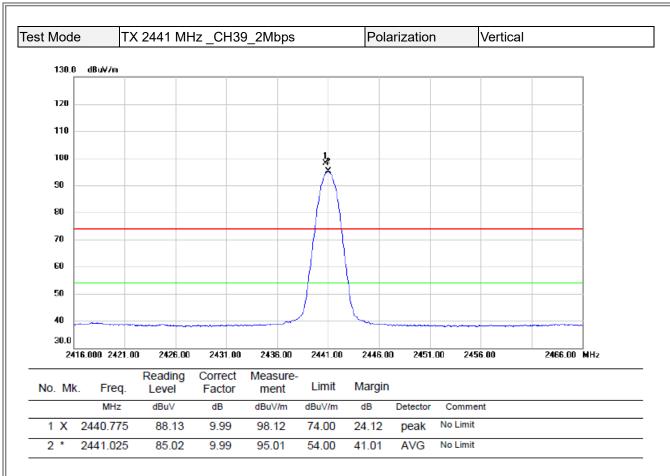
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





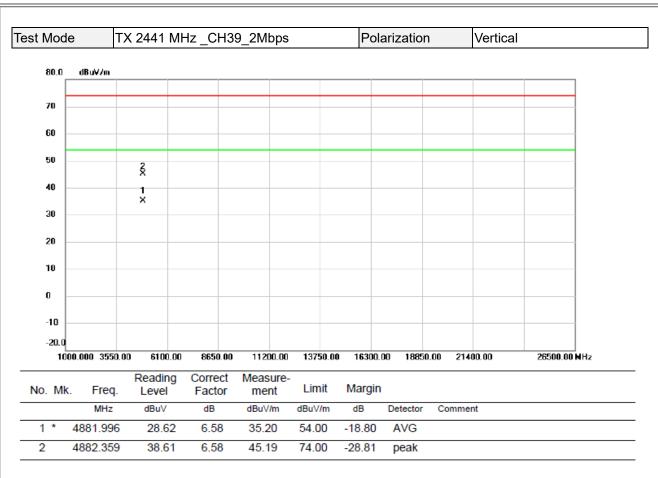
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





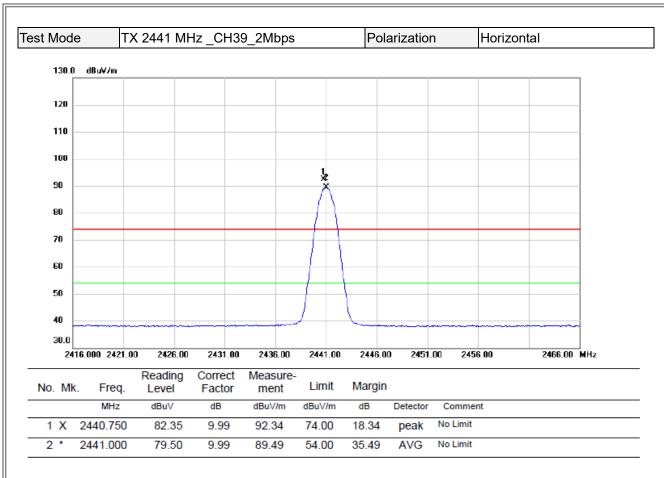
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





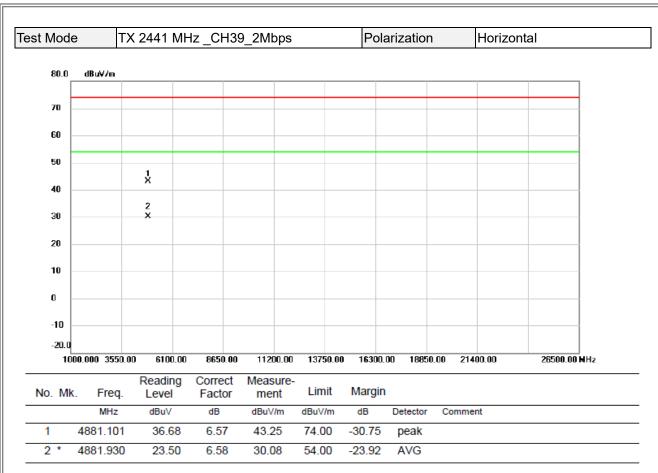
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





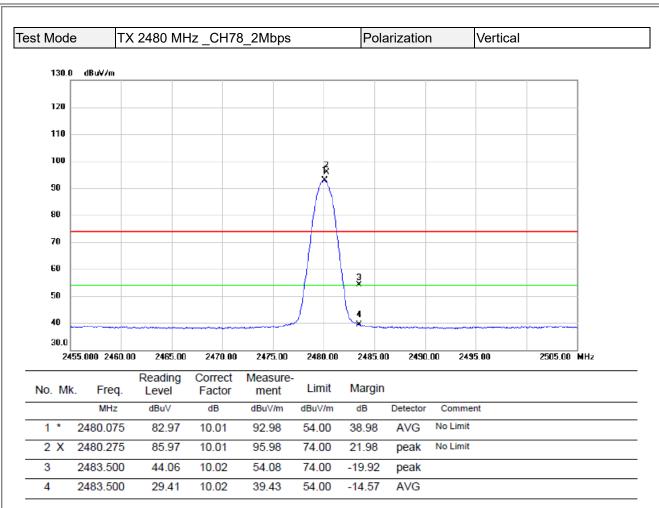
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





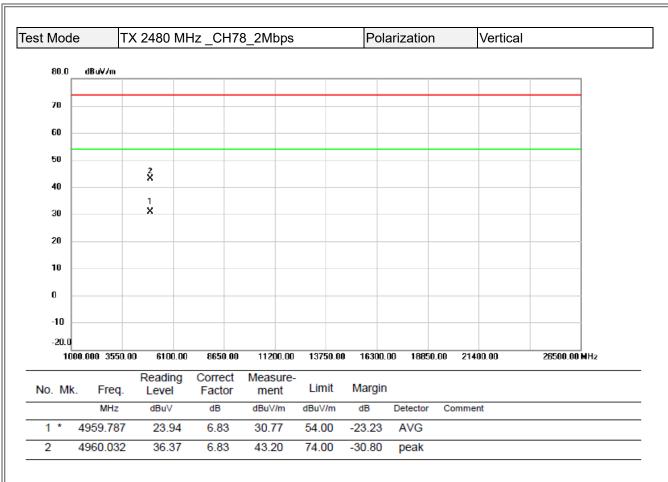
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





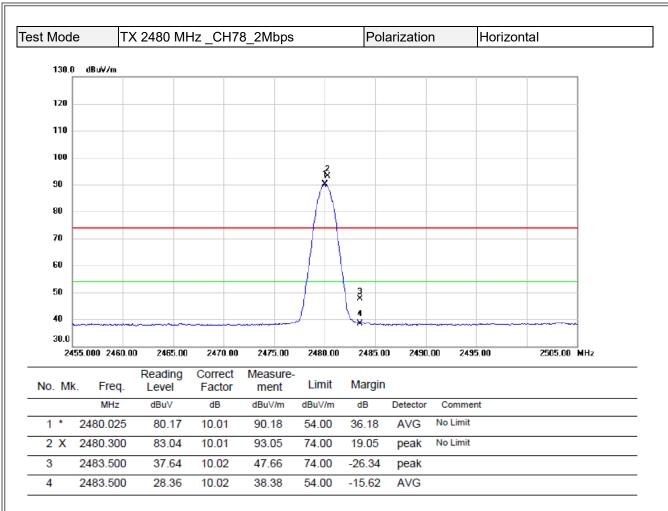
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





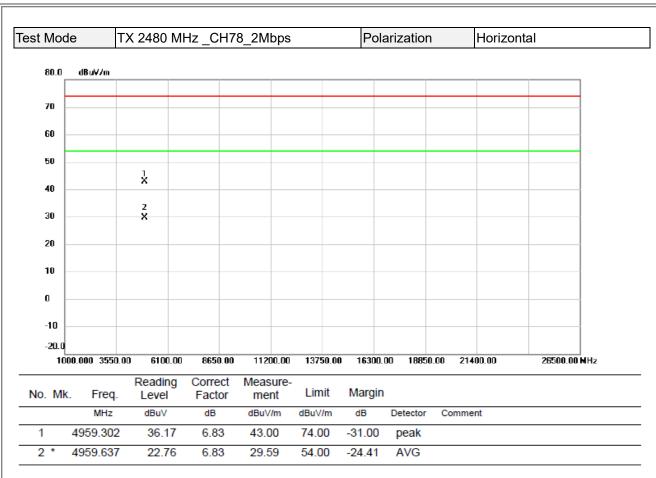
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



# **APPENDIX E - MAXIMUM OUTPUT POWER**





Test Mode: CH00, CH39, CH78

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	3.76	0.0024	30.00	1.00	Pass
2441	3.19	0.0021	30.00	1.00	Pass
2480	3.34	0.0022	30.00	1.00	Pass

