

FCC Test Report

Product Name	ROG Throne Qi
Model No.	ROG Throne Qi
FCC ID.	BJM-ROGTHRONEQI

Applicant	Tatung Company
Address	22 Chungshan N Road Sec 3 , Taipei 10451, Taiwan

Date of Receipt	Mar. 27, 2019
Issued Date	May. 29, 2019
Report No.	1930448R-RFUSP20V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issued Date: May. 29, 2019

Report No.: 1930448R-RFUSP20V00



Product Name	ROG Throne Qi
Applicant	Tatung Company
Address	22 Chungshan N Road Sec 3 , Taipei 10451, Taiwan
Manufacturer	Tatung Company
Model No.	ROG Throne Qi
FCC ID.	BJM-ROGTHRONEQI
EUT Rated Voltage	AC 100-240V, 50/60Hz
EUT Test Voltage	AC 110V, 60Hz
Trade Name	ASUS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2018 ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By :



(Adm. Specialist / Vita Wang)

Tested By :



(Engineer / Anson lu)

Approved By :



(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	ROG Throne Qi
Trade Name	ASUS
Model No.	ROG Throne Qi
FCC ID.	BJM-ROGTHRONEQI
Frequency Range	127.4~128KHz
Type of Modulation	ASK Modulation
Type of antenna	Coil Antenna
USB Cable	Non-shielded, 2.0m
Power Adapter	MFR: ASUS, M/N: ADP-33AW Y Input: AC 100-240V, 50-60Hz, 1A Output: 19V $\overline{=}$ 1.75A Cable Out: Non-shielded, 2.25m.

Frequency of Channel:

Channel	Frequency
Channel 1:	127.76KHz

Note:

1. The EUT is a ROG Throne Qi with a built-in 127.4~128kHz transceiver.
2. These tests were radiated on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.209
3. Only the higher Fundamental Radiated Emission channel was tested and recorded in this report.

Test Mode	Mode 1: Transmit 5V Mode 2: Transmit 9V
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1.3. Test System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

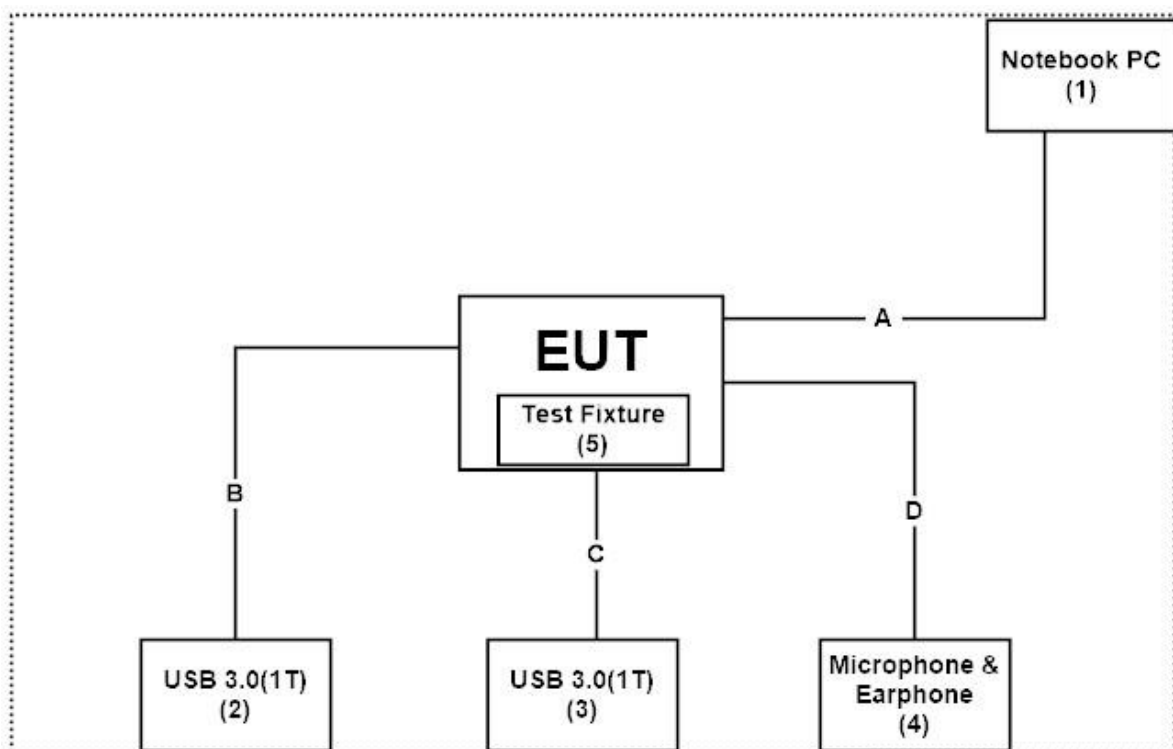
Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Notebook PC	DELL	Latitude E5440	HG26TZ1	Non-Shielded, 1.8m
2 USB 3.0(1T)	Transcend	TS1TSJ25M3	C13890-3746	Shielded, 0.5m
3 USB 3.0(1T)	Transcend	TS1TSJ25M3	C13890-3746	Shielded, 0.5m
4 Microphone & Earphone	Ergotech	ET-E201	N/A	Non-Shielded, 2.0m
5 Test Fixture	ASUS	N/A	N/A	N/A

Note:

- The Test Fixture is a cement resistor(30W5Ω).

Signal Cable Type	Signal cable Description
A USB Cable	Non-shielded, 2.0m
B USB Cable	Shielded, 0.5m
C USB Cable	Shielded, 0.5m
D Signal Cable	Non-shielded, 2.0m

1.4. Configuration of Test System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Turn on the power of all equipment.
- (3) Start the continuous transmitter.
- (4) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw/index_en

Site Description: Accredited by TAF
Accredited Number: 3023

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Site Address: No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451,
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FCC Accreditation Number: TW3023

1.7. List of Test Equipment

For Conducted measurements /CB3/SR8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
	Temperature Chamber	WIT GROUP	TH-1S-B	EQ-201-00146	2019/02/12	2020/02/11
X	Spectrum Analyzer	Agilent	N9010A	MY48030495	2018/10/13	2019/10/12
	Peak Power Analyzer	Keysight	8990B	MY51000410	2018/08/01	2019/07/31
	Wideband Power Sensor	Keysight	N1923A	MY56080003	2018/07/25	2019/07/24
	Wideband Power Sensor	Keysight	N1923A	MY56080004	2018/07/25	2019/07/24
X	EMI Test Receiver	R&S	ESCS 30	100369	2018/11/07	2019/11/06
X	LISN	R&S	ESH3-Z5	836679/017	2019/02/09	2020/02/08
X	LISN	R&S	ENV216	100097	2019/02/09	2020/02/08
X	Coaxial Cable	DEKRA	RG 400	LC018-RG	2018/06/21	2019/06/20

For Radiated measurements /Site3/CB8

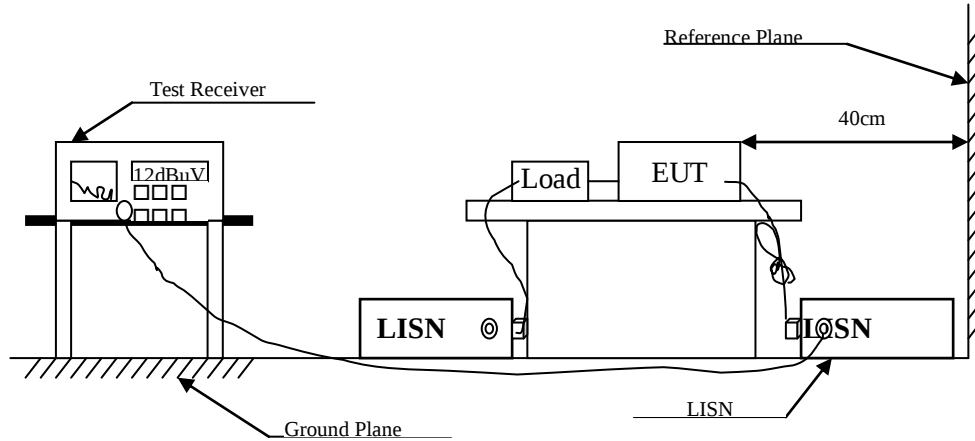
	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
X	Spectrum Analyzer	R&S	FSP40	100170	2019/03/12	2020/03/11
X	Loop Antenna	Teseq	HLA6121	37133	2017/10/13	2019/10/12
X	Bilog Antenna	Schaffner Chase	CBL6112B	2707	2018/06/24	2019/06/23
X	Coaxial Cable	DEKRA	RG 214	LC003-RG	2018/06/14	2019/06/13
X	Pre-Amplifier	Jet-Power	JPA-10M1G33	170101000330010	2018/06/14	2019/06/13
	Horn Antenna	ETS-Lindgren	3117	00135205	2019/05/03	2020/05/02
	Horn Antenna	SCHWARZBECK	9120D	576	2018/11/30	2019/11/29
	Pre-Amplifier	EMCI	EMC012630SE	980210	2019/04/10	2020/04/09
	Horn Antenna	Com-Power	AH-840	101043	2019/01/09	2020/01/08
	Amplifier + Cable	EMCI	EMC184045SE	980370	2019/03/21	2020/03/20
	Filter	MICRO-TRONICS	BRM50702	G270	2018/08/06	2019/08/05
	Filter	MICRO-TRONICS	BRM50716	G196	2018/08/06	2019/08/05

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version :QuiTek EMI 2.0 V2.1.113.

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56 _(註)	56-46 _(註)
0.50-5.0	56	46
5.0 - 30	60	50

2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

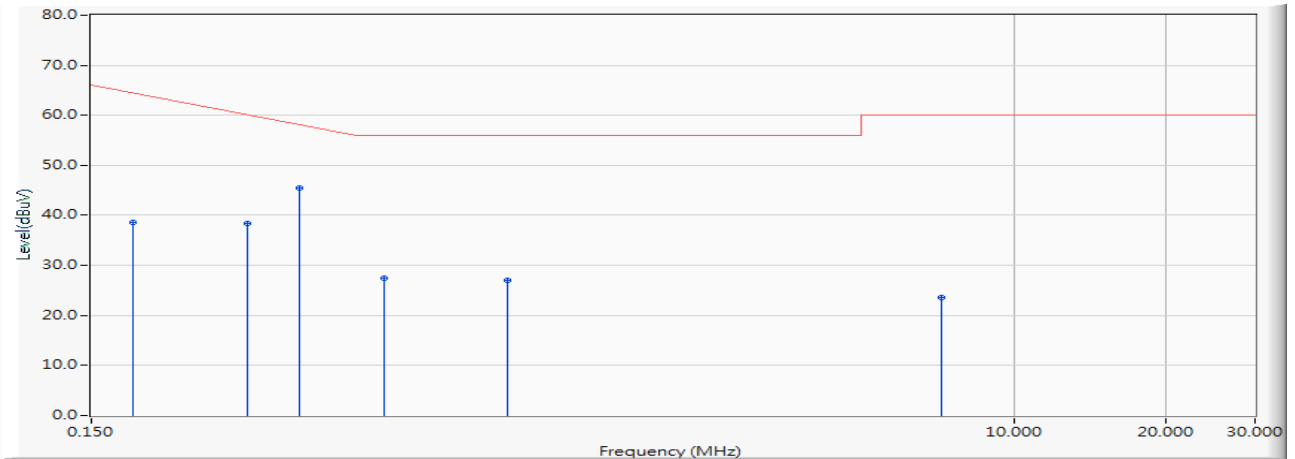
2.4. Uncertainty

± 2.26 dB

2.5. Test Result of Conducted Emission

Product : ROG Throne Qi
 Test Item : Conducted Emission Test
 Test Site : No.SR8
 Test Date : 2019/04/24
 Test Mode : Mode 1: Transmit 5V

Line1



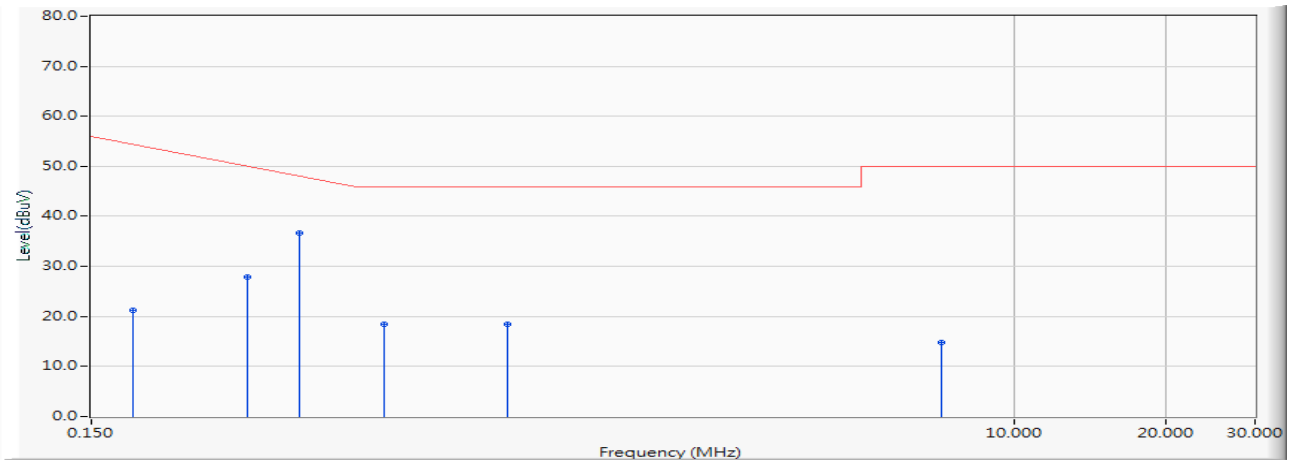
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.181	9.657	28.860	38.517	-26.597	65.114	QUASIPeAK
2		0.306	9.662	28.680	38.342	-23.201	61.543	QUASIPeAK
3	*	0.388	9.666	35.900	45.566	-13.634	59.200	QUASIPeAK
4		0.568	9.673	17.880	27.553	-28.447	56.000	QUASIPeAK
5		0.998	9.690	17.280	26.970	-29.030	56.000	QUASIPeAK
6		7.209	9.904	13.640	23.544	-36.456	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ROG Throne Qi
 Test Item : Conducted Emission Test
 Test Site : No.SR8
 Test Date : 2019/04/24
 Test Mode : Mode 1: Transmit 5V

Line1



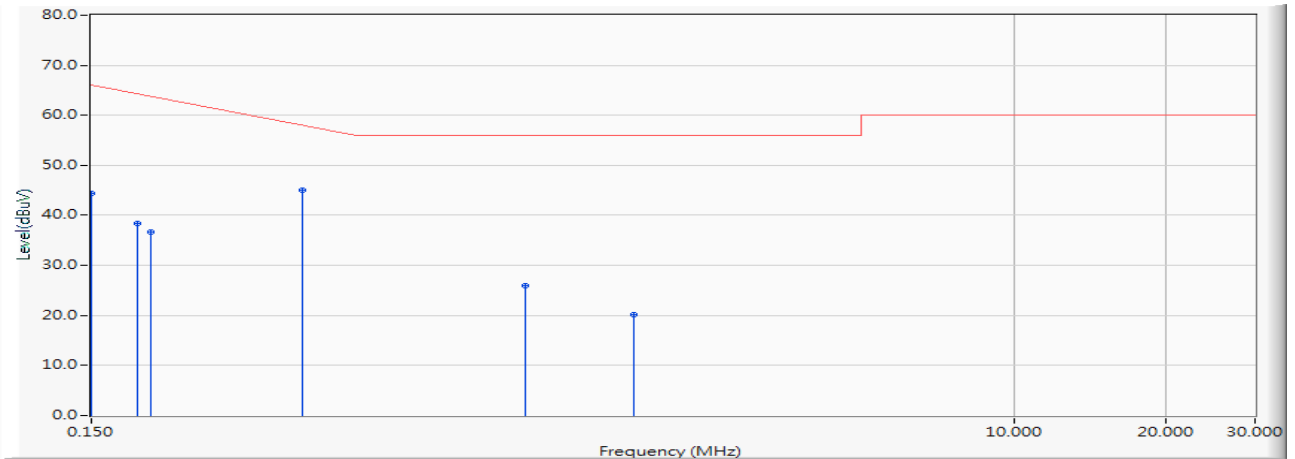
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.181	9.657	11.470	21.127	-33.987	55.114	AVERAGE
2		0.306	9.662	18.260	27.922	-23.621	51.543	AVERAGE
3	*	0.388	9.666	27.080	36.746	-12.454	49.200	AVERAGE
4		0.568	9.673	8.700	18.373	-27.627	46.000	AVERAGE
5		0.998	9.690	8.700	18.390	-27.610	46.000	AVERAGE
6		7.209	9.904	4.910	14.814	-35.186	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ROG Throne Qi
 Test Item : Conducted Emission Test
 Test Site : No.SR8
 Test Date : 2019/04/24
 Test Mode : Mode 1: Transmit 5V

Line2



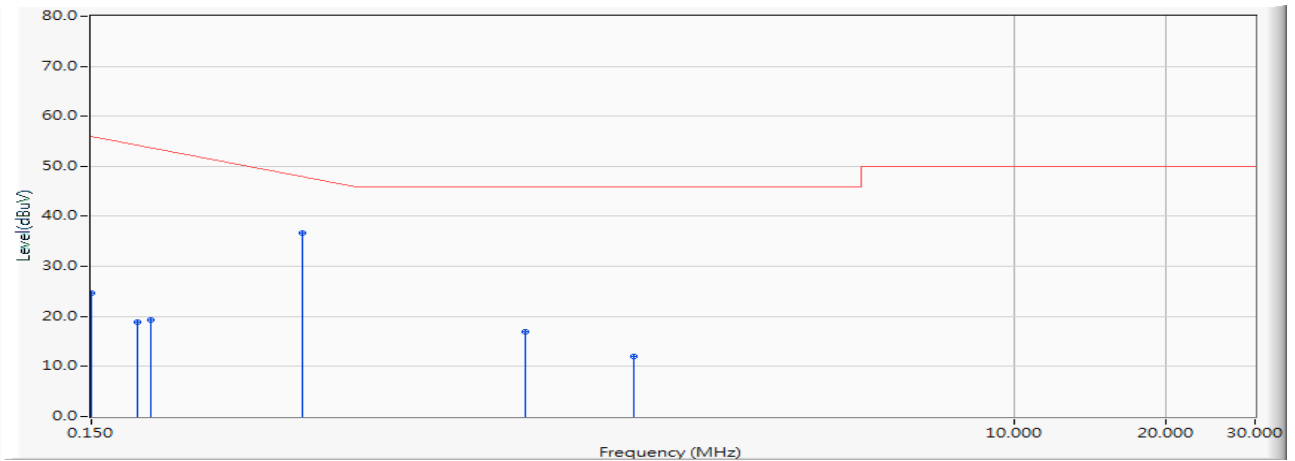
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.696	34.780	44.476	-21.524	66.000	QUASIPeAK
2		0.185	9.688	28.640	38.328	-26.672	65.000	QUASIPeAK
3		0.197	9.688	27.020	36.708	-27.949	64.657	QUASIPeAK
4	*	0.392	9.696	35.300	44.996	-14.090	59.086	QUASIPeAK
5		1.084	9.734	16.280	26.014	-29.986	56.000	QUASIPeAK
6		1.775	9.772	10.440	20.212	-35.788	56.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ROG Throne Qi
 Test Item : Conducted Emission Test
 Test Site : No.SR8
 Test Date : 2019/04/24
 Test Mode : Mode 1: Transmit 5V

Line2



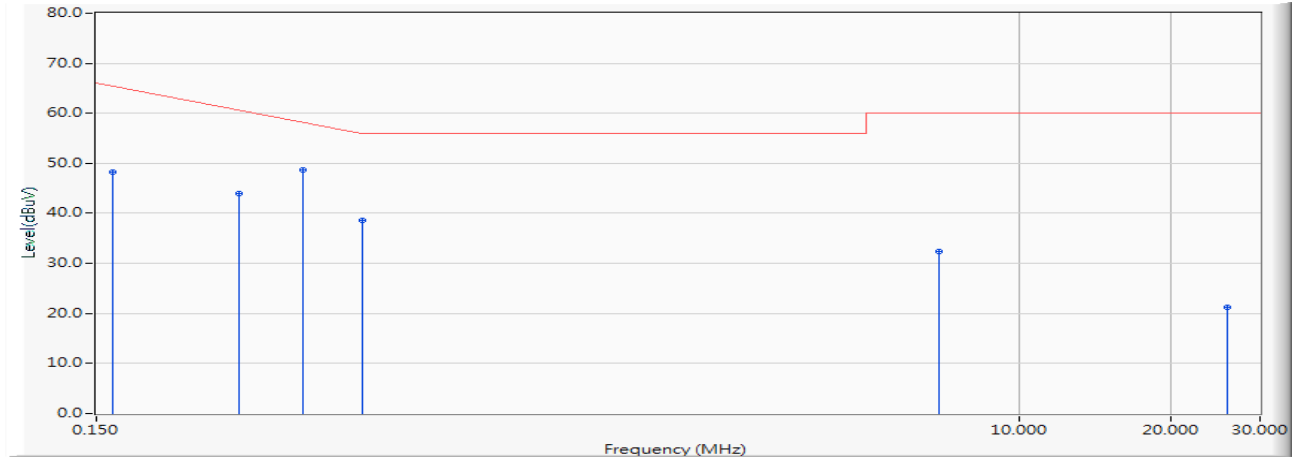
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.696	14.910	24.606	-31.394	56.000	AVERAGE
2		0.185	9.688	9.270	18.958	-36.042	55.000	AVERAGE
3		0.197	9.688	9.510	19.198	-35.459	54.657	AVERAGE
4	*	0.392	9.696	27.080	36.776	-12.310	49.086	AVERAGE
5		1.084	9.734	7.280	17.014	-28.986	46.000	AVERAGE
6		1.775	9.772	2.340	12.112	-33.888	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ROG Throne Qi
 Test Item : Conducted Emission Test
 Test Site : No.SR8
 Test Date : 2019/05/10
 Test Mode : Mode 2: Transmit 9V

Line1



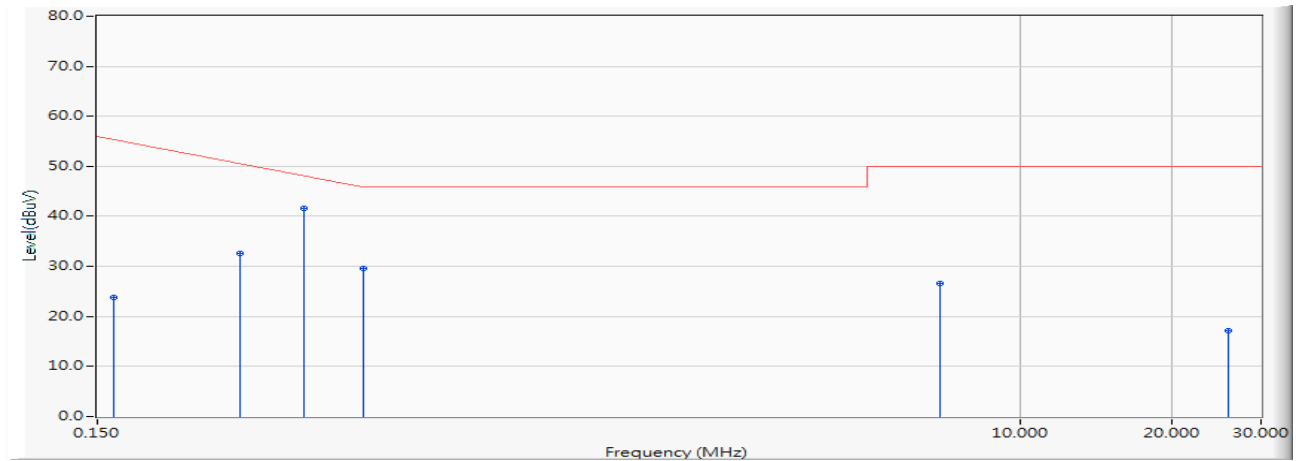
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.656	38.560	48.216	-17.441	65.657	QUASIPeAK
2		0.287	9.661	34.280	43.941	-18.145	62.086	QUASIPeAK
3	*	0.384	9.665	39.120	48.785	-10.529	59.314	QUASIPeAK
4		0.505	9.670	28.940	38.610	-17.390	56.000	QUASIPeAK
5		6.966	9.888	22.440	32.328	-27.672	60.000	QUASIPeAK
6		25.877	10.203	11.000	21.203	-38.797	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ROG Throne Qi
 Test Item : Conducted Emission Test
 Test Site : No.SR8
 Test Date : 2019/05/10
 Test Mode : Mode 2: Transmit 9V

Line1



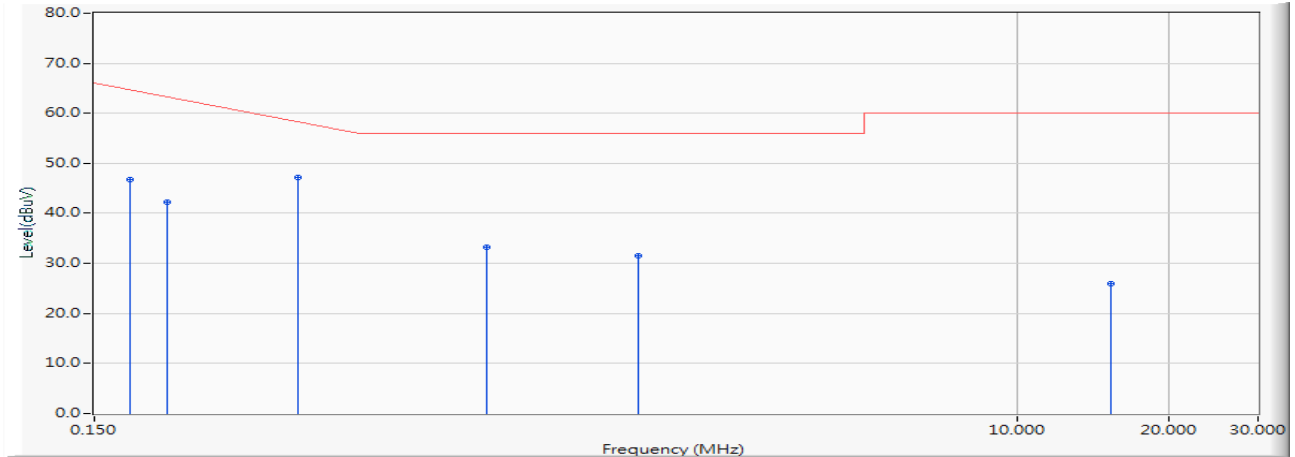
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.656	14.250	23.906	-31.751	55.657	AVERAGE
2		0.287	9.661	22.970	32.631	-19.455	52.086	AVERAGE
3	*	0.384	9.665	31.880	41.545	-7.769	49.314	AVERAGE
4		0.505	9.670	19.840	29.510	-16.490	46.000	AVERAGE
5		6.966	9.888	16.640	26.528	-23.472	50.000	AVERAGE
6		25.877	10.203	6.890	17.093	-32.907	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ROG Throne Qi
 Test Item : Conducted Emission Test
 Test Site : No.SR8
 Test Date : 2019/05/10
 Test Mode : Mode 2: Transmit 9V

Line2



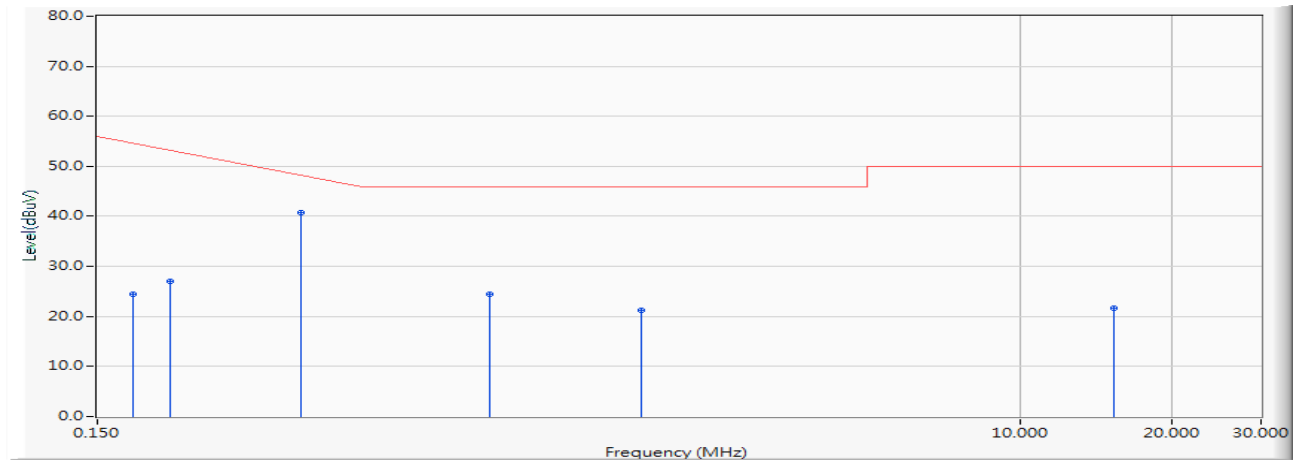
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.177	9.691	36.980	46.671	-18.558	65.229	QUASIPeAK
2		0.209	9.688	32.660	42.348	-21.966	64.314	QUASIPeAK
3	*	0.380	9.695	37.580	47.275	-12.154	59.429	QUASIPeAK
4		0.896	9.726	23.460	33.186	-22.814	56.000	QUASIPeAK
5		1.791	9.773	21.840	31.613	-24.387	56.000	QUASIPeAK
6		15.345	10.209	15.800	26.009	-33.991	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : ROG Throne Qi
 Test Item : Conducted Emission Test
 Test Site : No.SR8
 Test Date : 2019/05/10
 Test Mode : Mode 2: Transmit 9V

Line2



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.177	9.691	14.850	24.541	-30.688	55.229	AVERAGE
2		0.209	9.688	17.440	27.128	-27.186	54.314	AVERAGE
3	*	0.380	9.695	30.970	40.665	-8.764	49.429	AVERAGE
4		0.896	9.726	14.720	24.446	-21.554	46.000	AVERAGE
5		1.791	9.773	11.420	21.193	-24.807	46.000	AVERAGE
6		15.345	10.209	11.420	21.629	-28.371	50.000	AVERAGE

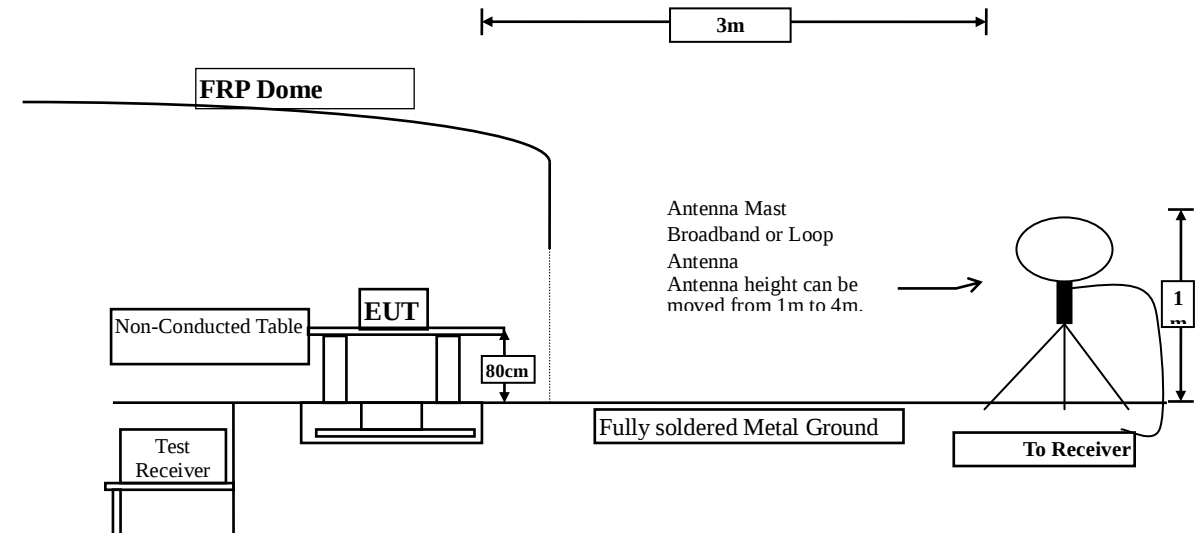
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

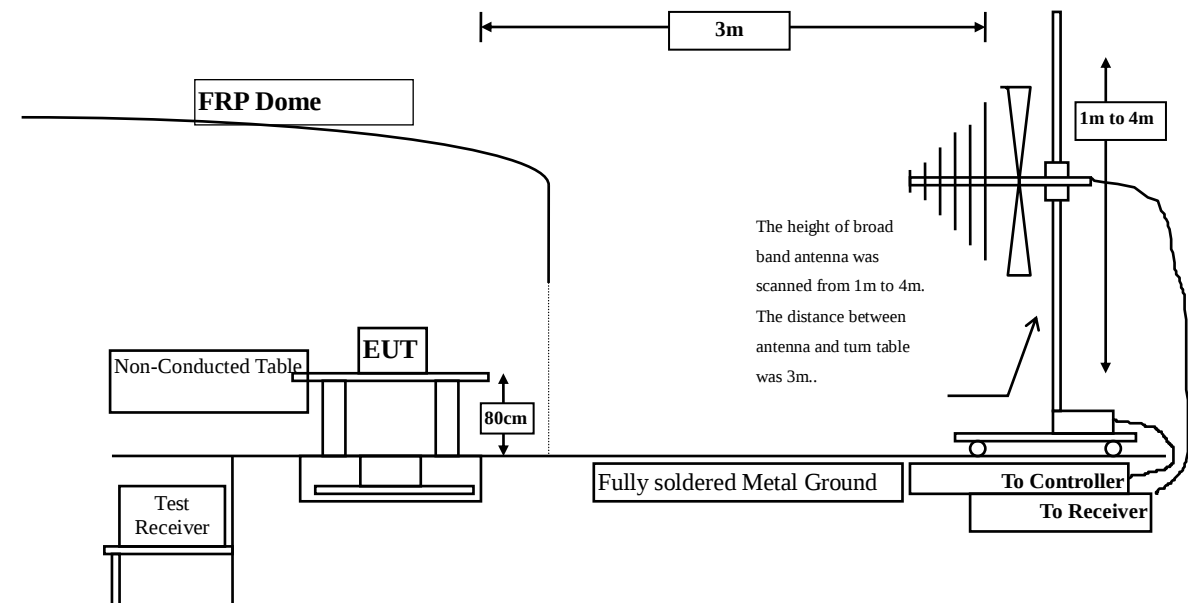
3. Radiated Emission

3.1. Test Setup

Under 30MHz Test Setup



Radiated Emission Below 1GHz



3.2. Limits

FCC Part 15 Subpart B Paragraph 15.209 Limits		
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2,400/F(kHz)	300
0.490– 1.705	24,000/F(kHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Remarks :

1. RF Voltage (dBuV) = $20 \log \text{RF Voltage (uV)}$
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.209 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz. Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

3.4. Uncertainty

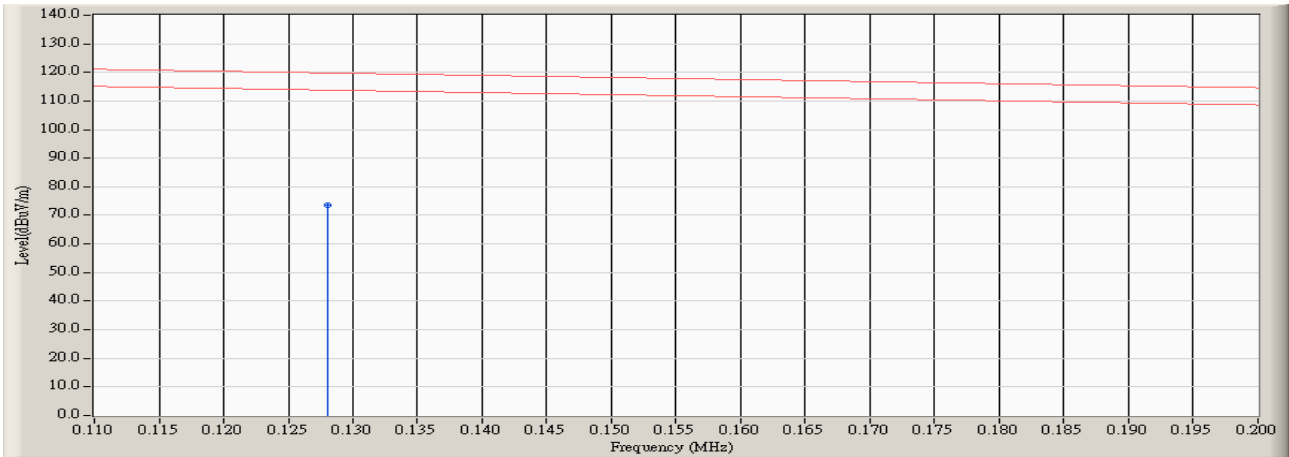
± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

3.5. Test Result of Radiated Emission

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 1: Transmit 5V

Horizontal

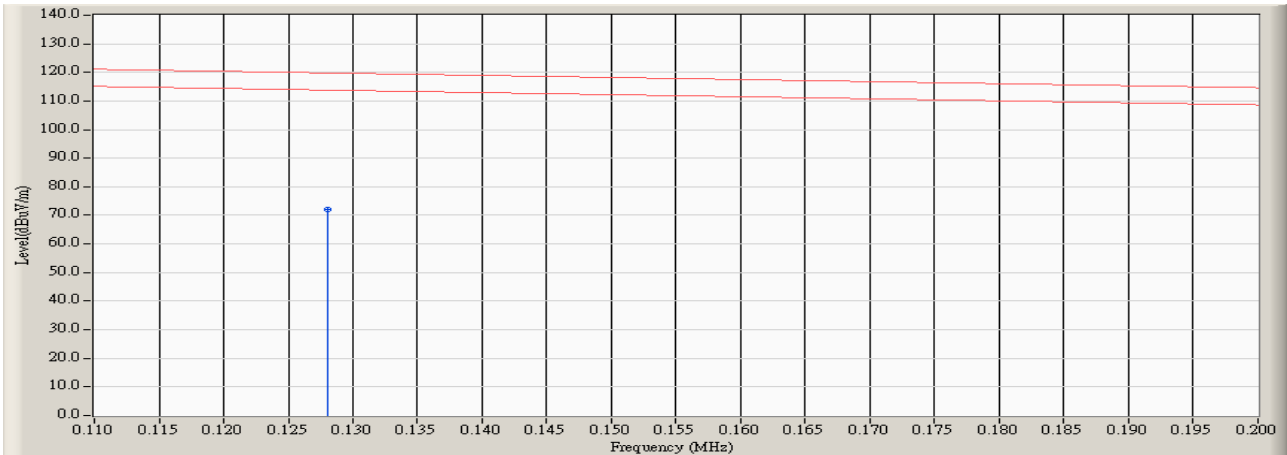


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	0.12776	19.991	53.500	73.491	-31.985	105.476	Average

Note:

1. Limit = $25.476 \text{ dBuV}/300\text{m} + 40 \cdot \log(300\text{m}/3\text{m}) = 105.476 \text{ dBuV}/3\text{m}$ (Average).
2. Measurement Level = Reading Level + Correct Factor.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 1: Transmit 5V

Vertical

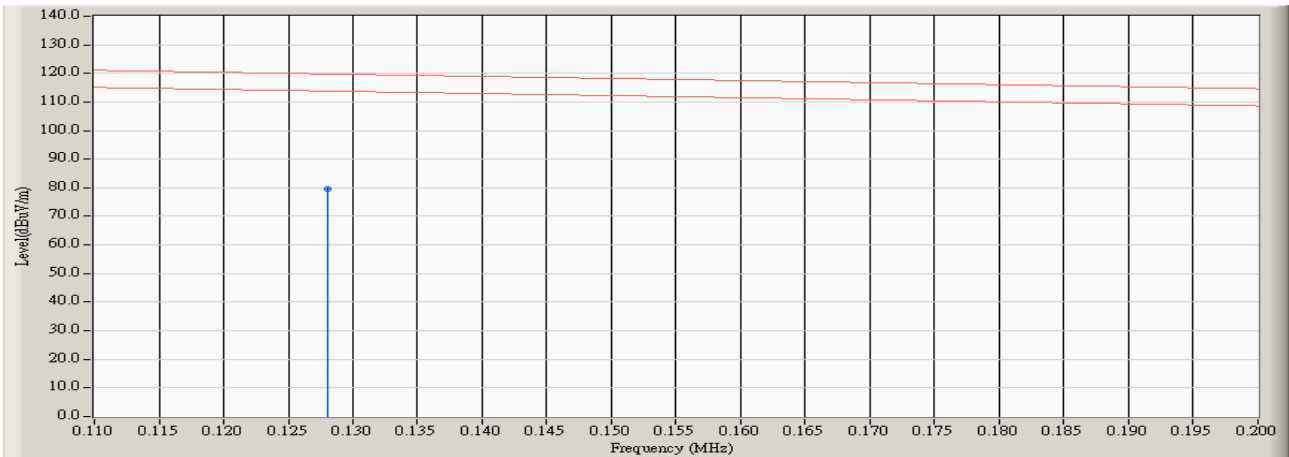
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	0.12776	19.991	52.200	72.191	-33.285	105.476	Average

Note:

1. Limit=25.476 dBuV/300m + 40*Log (300(m)/3(m))= 105.476dBuV/3m (Average).
2. Measurement Level = Reading Level + Correct Factor.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 2: Transmit 9V

Horizontal

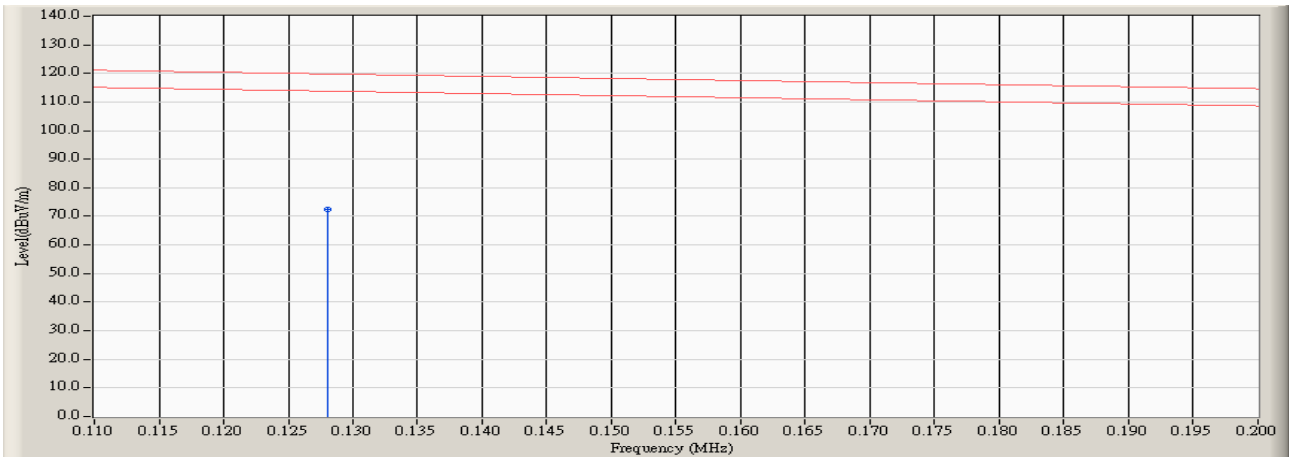


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	0.12776	19.991	54.200	74.191	-31.285	105.476	Average

Note:

1. Limit=25.476 dBuV/300m + 40*Log (300(m)/3(m))= 105.476dBuV/3m (Average).
2. Measurement Level = Reading Level + Correct Factor.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 2: Transmit 9V

Vertical

		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	0.12776	19.991	52.500	72.491	-32.985	105.476	Average

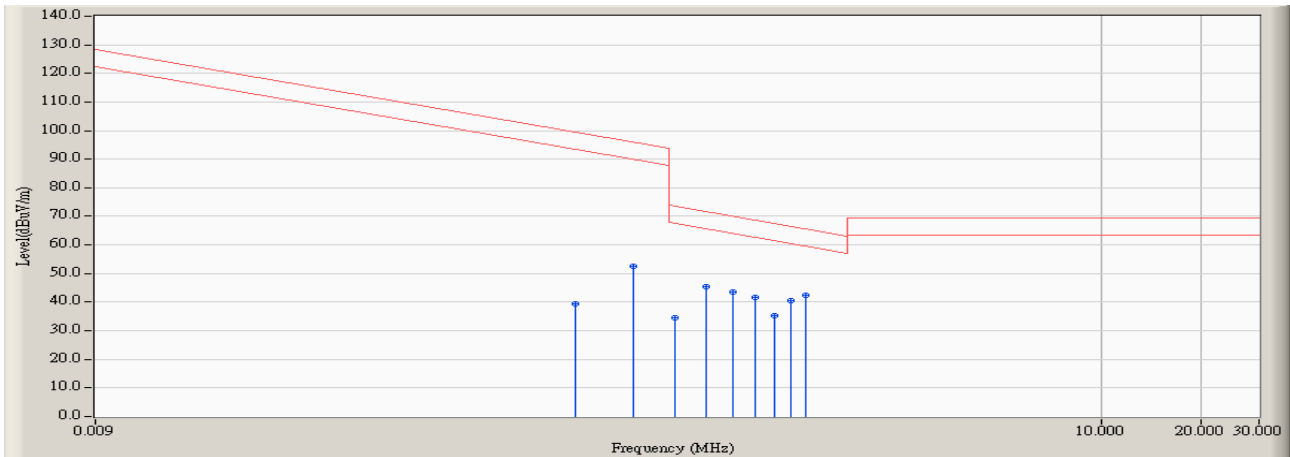
Note:

- Limit = $25.476 \text{ dBuV}/300\text{m} + 40 \cdot \log(300\text{m}/3\text{m}) = 105.476 \text{ dBuV}/3\text{m}$ (Average).
- Measurement Level = Reading Level + Correct Factor.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 1: Transmit 5V (9k-30M)

9kHz~30MHz

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		0.256	19.925	19.600	39.525	-71.166	110.691	QUASIPeAK
2		0.383	19.900	32.490	52.390	-49.134	101.524	QUASIPeAK
3		0.511	19.900	14.500	34.400	-39.213	73.613	QUASIPeAK
4		0.639	19.900	25.600	45.500	-26.972	72.472	QUASIPeAK
5		0.767	19.900	23.600	43.500	-27.831	71.331	QUASIPeAK
6		0.894	19.900	21.700	41.600	-28.599	70.199	QUASIPeAK
7		1.022	19.892	15.220	35.112	-33.946	69.058	QUASIPeAK
8		1.150	19.860	20.520	40.380	-27.537	67.917	QUASIPeAK
9	*	1.278	19.830	22.520	42.350	-24.426	66.776	QUASIPeAK

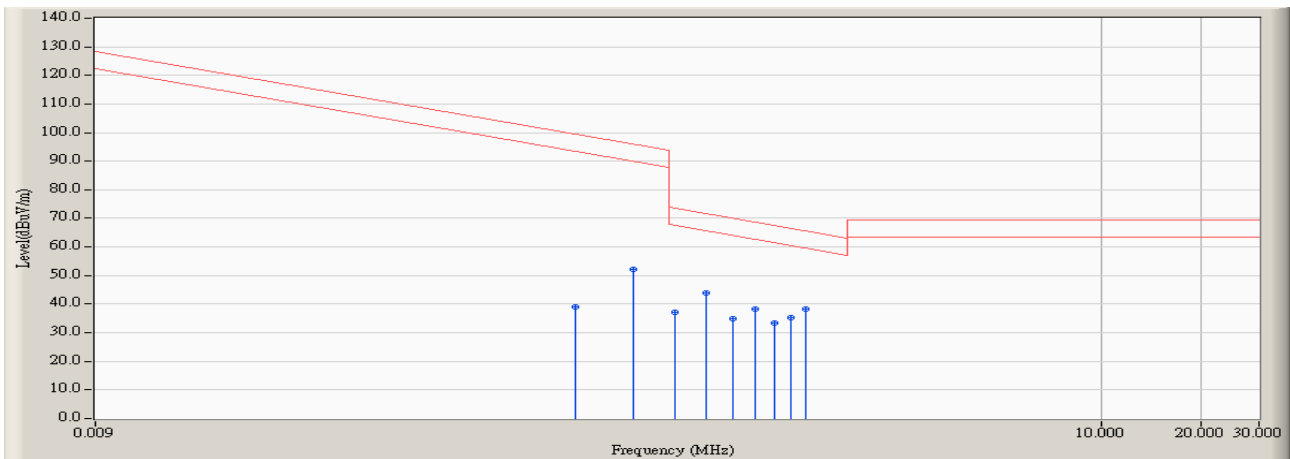
Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 1: Transmit 5V (9k-30M)

9kHz~30MHz

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		0.256	19.925	19.100	39.025	-71.666	110.691	QUASIPeAK
2		0.383	19.900	32.110	52.010	-49.514	101.524	QUASIPeAK
3		0.511	19.900	17.300	37.200	-36.413	73.613	QUASIPeAK
4		0.639	19.900	24.100	44.000	-28.472	72.472	QUASIPeAK
5		0.767	19.900	15.150	35.050	-36.281	71.331	QUASIPeAK
6		0.894	19.900	18.500	38.400	-31.799	70.199	QUASIPeAK
7		1.022	19.892	13.600	33.492	-35.566	69.058	QUASIPeAK
8		1.150	19.860	15.380	35.240	-32.677	67.917	QUASIPeAK
9	*	1.278	19.830	18.550	38.380	-28.396	66.776	QUASIPeAK

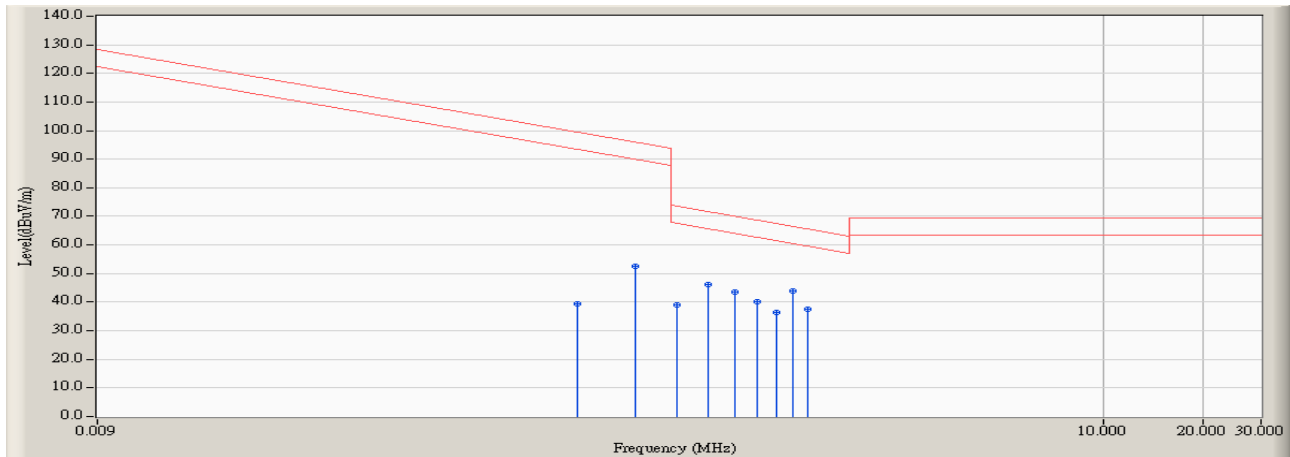
Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 2: Transmit 9V (9k-30M)

9kHz~30MHz

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		0.256	19.925	19.500	39.425	-71.266	110.691	QUASIPeAK
2		0.383	19.900	32.670	52.570	-48.954	101.524	QUASIPeAK
3		0.511	19.900	19.200	39.100	-34.513	73.613	QUASIPeAK
4		0.639	19.900	26.100	46.000	-26.472	72.472	QUASIPeAK
5		0.767	19.900	23.700	43.600	-27.731	71.331	QUASIPeAK
6		0.894	19.900	20.300	40.200	-29.999	70.199	QUASIPeAK
7		1.022	19.892	16.600	36.492	-32.566	69.058	QUASIPeAK
8	*	1.150	19.860	24.220	44.080	-23.837	67.917	QUASIPeAK
9		1.278	19.830	17.520	37.350	-29.426	66.776	QUASIPeAK

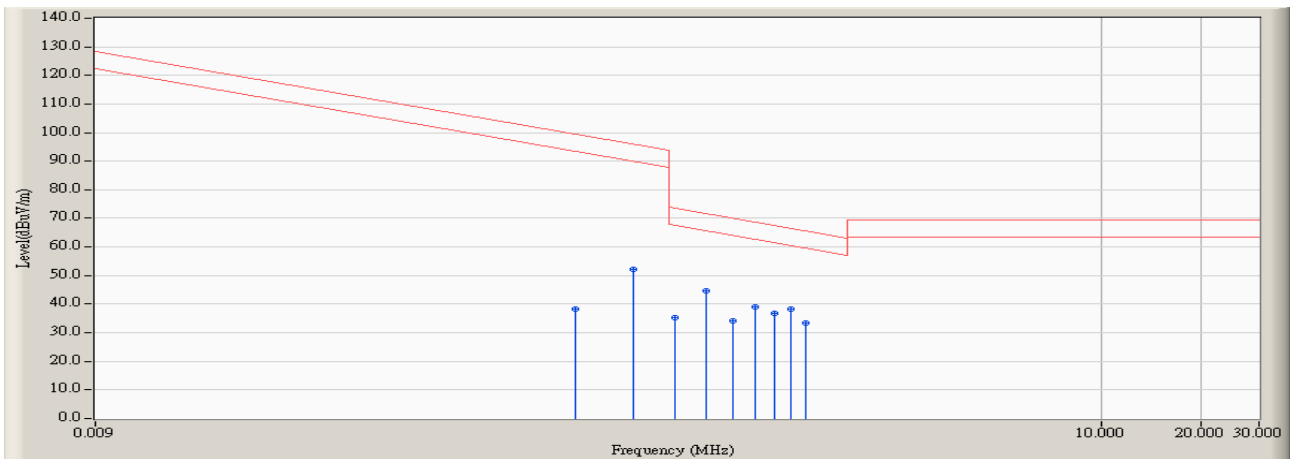
Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 2: Transmit 9V (9k-30M)

9kHz~30MHz

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		0.256	19.925	18.500	38.425	-72.266	110.691	QUASIPeAK
2		0.383	19.900	32.160	52.060	-49.464	101.524	QUASIPeAK
3		0.511	19.900	15.380	35.280	-38.333	73.613	QUASIPeAK
4	*	0.639	19.900	24.900	44.800	-27.672	72.472	QUASIPeAK
5		0.767	19.900	14.170	34.070	-37.261	71.331	QUASIPeAK
6		0.894	19.900	19.100	39.000	-31.199	70.199	QUASIPeAK
7		1.022	19.892	16.730	36.622	-32.436	69.058	QUASIPeAK
8		1.150	19.860	18.550	38.410	-29.507	67.917	QUASIPeAK
9		1.278	19.830	13.650	33.480	-33.296	66.776	QUASIPeAK

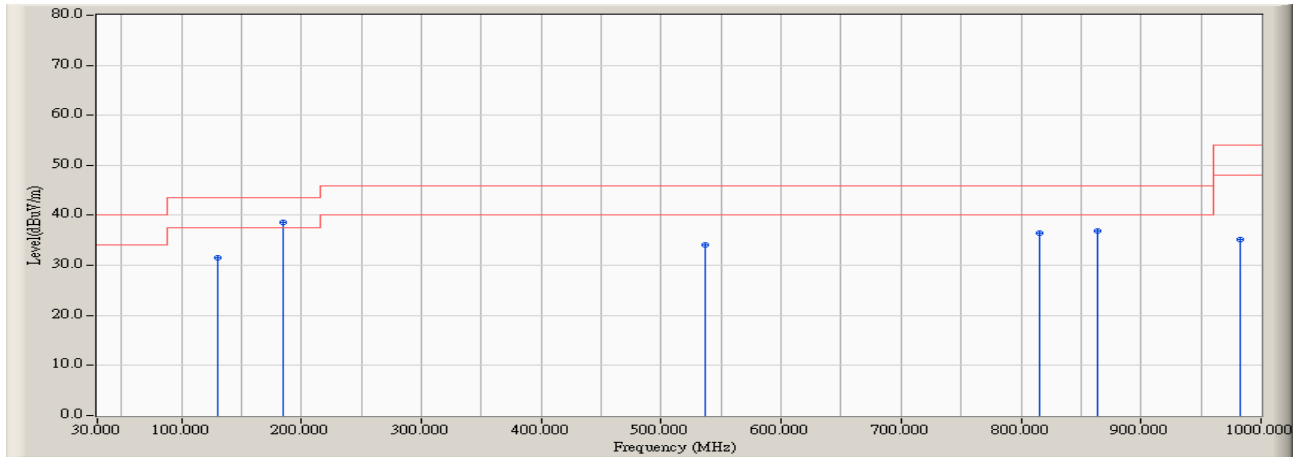
Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 1: Transmit 5V (30M-1G)

30MHz~1GHz

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		130.880	19.623	11.869	31.492	-12.008	43.500	QUASIPeAK
2	*	185.200	17.132	21.384	38.516	-4.984	43.500	QUASIPeAK
3		536.340	26.989	7.193	34.182	-11.818	46.000	QUASIPeAK
4		815.700	29.922	6.584	36.506	-9.494	46.000	QUASIPeAK
5		864.200	30.614	6.291	36.905	-9.095	46.000	QUASIPeAK
6		982.540	31.860	3.350	35.210	-18.790	54.000	QUASIPeAK

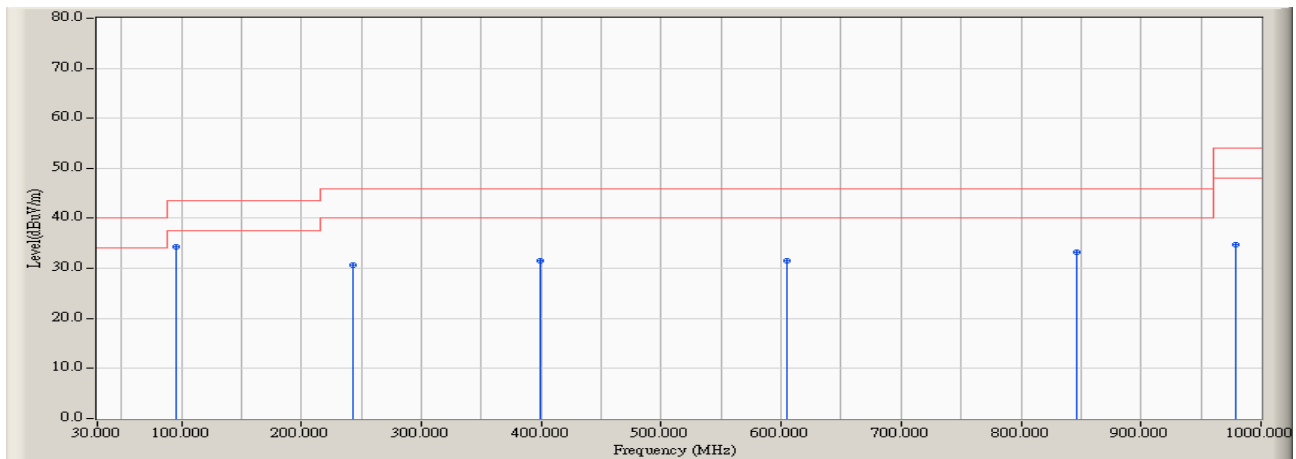
Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 1: Transmit 5V (30M-1G)

30MHz~1GHz

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	95.960	17.334	16.991	34.325	-9.175	43.500	QUASIPeAK
2		243.400	20.190	10.396	30.586	-15.414	46.000	QUASIPeAK
3		398.600	24.701	6.802	31.503	-14.497	46.000	QUASIPeAK
4		604.240	27.839	3.707	31.546	-14.454	46.000	QUASIPeAK
5		846.740	30.473	2.766	33.239	-12.761	46.000	QUASIPeAK
6		978.660	31.822	3.022	34.844	-19.156	54.000	QUASIPeAK

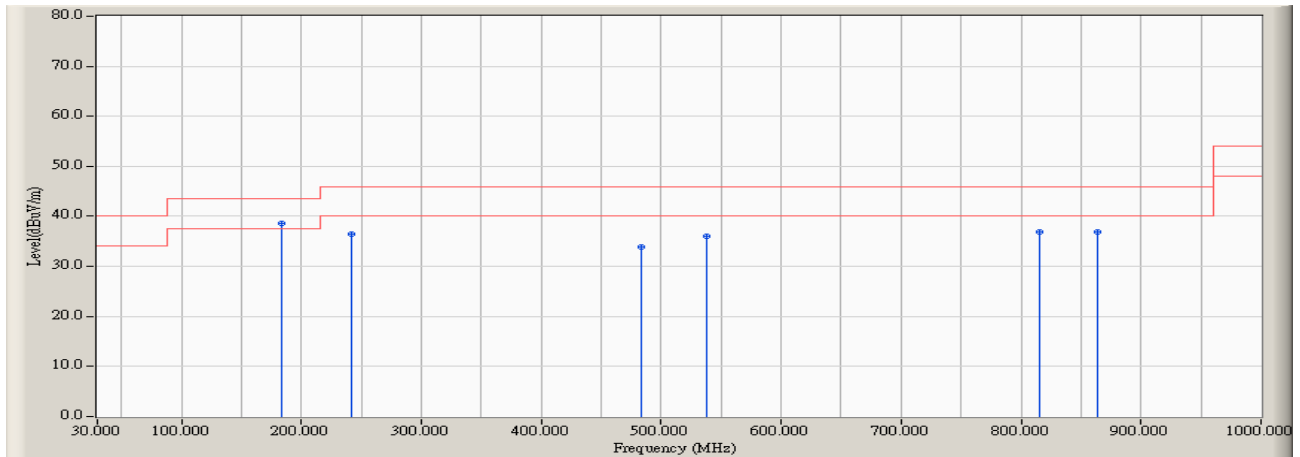
Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
 Test date : 2019/04/17
 Test Mode : Mode 2: Transmit 9V (30M-1G)

30MHz~1GHz

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	183.260	17.156	21.430	38.586	-4.914	43.500	QUASIPeAK
2		241.460	20.041	16.492	36.533	-9.467	46.000	QUASIPeAK
3		483.960	26.023	7.831	33.854	-12.146	46.000	QUASIPeAK
4		538.280	27.034	9.015	36.049	-9.951	46.000	QUASIPeAK
5		815.700	29.922	7.042	36.964	-9.036	46.000	QUASIPeAK
6		864.200	30.614	6.326	36.940	-9.060	46.000	QUASIPeAK

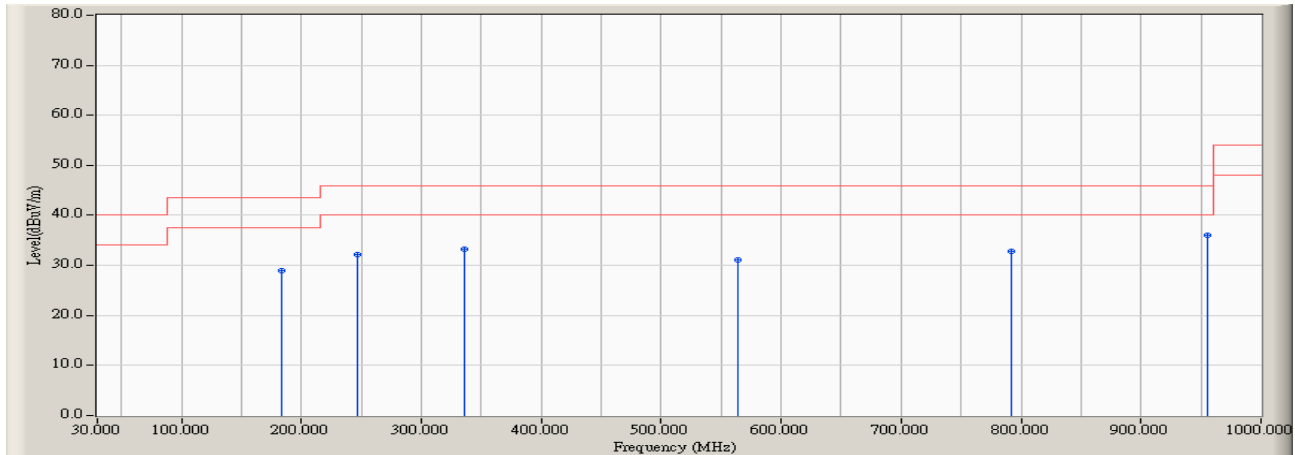
Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
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Product : ROG Throne Qi
 Test Item : Fundamental Radiated Emission
 Test Site : No.7 EMC fully Chamber
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30MHz~1GHz

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		183.260	17.156	11.700	28.856	-14.644	43.500	QUASIPeAK
2		247.280	20.474	11.762	32.236	-13.764	46.000	QUASIPeAK
3		336.520	22.882	10.330	33.212	-12.788	46.000	QUASIPeAK
4		563.500	27.424	3.579	31.003	-14.997	46.000	QUASIPeAK
5		792.420	29.583	3.339	32.922	-13.078	46.000	QUASIPeAK
6	*	955.380	31.630	4.325	35.955	-10.045	46.000	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement Level = Reading Level + Correct Factor.
3. "■" means the worst emission level.

The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. EMI Reduction Method During Compliance Testing

No modification was made during testing.