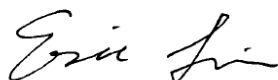


TEST REPORT

Application No.: KSCR2201000146AT
FCC ID: 2AYGCIRO-B10
Applicant: Honor Device Co., Ltd.
Address of Applicant: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No.8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Factory: Goertek Inc.
Address of Factory: No.999 Liyuan Street, High-Tech industrial Development District, Weifang, Shandong, 261031, P.R. China
Equipment Under Test (EUT):
EUT Name: Charging case
Model No.: IRO-B10
Trade mark: HONOR
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2021-11-08
Date of Test: 2021-11-24 to 2021-12-04
Date of Issue: 2021-12-28

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-12-28	/

Authorized for issue by:			
		<i>Damon Zhou</i>	
		Damon Zhou / Project Engineer	
		<i>Eric Lin</i>	
		Eric Lin / Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

InternalSource	UpperFrequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 3.82V by rechargeable lithium battery
 Test voltage: AC 120V/60Hz
 Cable: USB cable

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	I.T.E. POWER SUPPLY	S018BYU1200150	/
Mobile phone	NUBIA	Nubia Z11 Max	/
Wireless charging base	/	/	/
Earbuds	Honor Device Co., Ltd.	IRO-T10	/

4.3 EUT Configurations

Configurations	Config A	Config B	Config C
Earbuds Battery	Earbuds Battery 2	Earbuds Battery 3	Earbuds Battery 1
Charging Case Battery	Charging Case Battery 1	Charging Case Battery 2	Charging Case Battery 1
USB Cable	USB Cable 1	USB Cable 1	USB Cable 2

Configurations	Config D	Config E	Config F
Earbuds Battery	Earbuds Battery 2	Earbuds Battery 3	Earbuds Battery 1
Charging Case Battery	Charging Case Battery 1	Charging Case Battery 2	Charging Case Battery 1
USB Cable	USB Cable 2	USB Cable 2	USB Cable 1

4.3.1 Details of Configurations

Earbuds Battery 1	Model	HB1054EFW
	Normal Voltage	3.87V
	Rated capacity	42mAh
	Manufacturer	Shenzhen BYD Lithium Battery Company Limited
Earbuds Battery 2	Model	HB1054EFW
	Normal Voltage	3.87V
	Rated capacity	42mAh
	Manufacturer	ZHUHAI COSMX BATTERY CO., LTD.
Earbuds Battery 3	Model	HB1054EFW
	Normal Voltage	3.87V
	Rated capacity	42mAh
	Manufacturer	Ningde Amperex Technology Limited
Charging Case Battery 1	Model	HB681636ECW
	Normal Voltage	3.82V
	Rated capacity	410mAh/1.56Wh
	Manufacturer	Dongguan NVT Technology Co., Ltd.
Charging Case Battery 2	Model	HB681636ECW
	Normal Voltage	3.82V
	Rated capacity	410mAh/1.56Wh



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	Manufacturer	Tianjin Lishen Battery Joint-Stock Co., Ltd
USB Cable 1	Manufacturer	Dongguan MGE Electronics Co., Ltd.
USB Cable 2	Manufacturer	Freeport Guangdong Precision Industry Co., Ltd.

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission at mains port using AMN	2.4dB (9kHz to 150kHz)
		2.2dB (150kHz to 30MHz)
2	Conducted Emission at telecommunication port using AAN	4.0 dB (150kHz to 30MHz)
3	Radiated Power	3.2dB
4	Radiated Emission (10m)	4.1 dB
5	Radiated Emission (3m)	4.6 dB (30MHz-1GHz)
		5.0dB (1GHz-6GHz)
		5.2dB (6GHz-18GHz)
		5.3dB (18GHz-40GHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888

Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI TEST RECEIVER	R&S	ESCI	100781	02/01/2021	01/31/2022
V (V-LISN)	SCHWARZBECK	NNLK 8129	8129-143	10/12/2021	10/11/2022
TWO-LINE V-NETWORK	R&S	ENV216	101604	10/12/2021	10/11/2022
Pulse LIMITER	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	Agilent	E4446A	US44300398	04/15/2021	04/14/2022
Antenna	SCHAFFNER	CBL6143	5078	10/26/2020	10/25/2022

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	Agilent	E4446A	US44300398	04/15/2021	04/14/2022
Pre-Amplifier	PANSHAN TECHNOLOGY	LNA:1~18G	/	04/15/2021	04/14/2022
Horn-antenna	SCHWARZBECK	BBHA9120D	267	10/26/2020	10/25/2022

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital Pressure Meter	Mengde	DYM3	CZ750023	02/02/2021	02/01/2022
Temperature & Humidity Recorder	Anymetre	TH603	CZ720001-1 CZ720001-2 CZ720001-3 CZ720001-4 CZ720001-5 CZ720001-6 CZ720001-7	10/14/2021	10/13/2022



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: 150kHz to 30MHz
 Limit:
 0.15M-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
 0.5M-5MHz 56dB(μV) quasi-peak, 46dB(μV) average
 5M-30MHz 60dB(μV) quasi-peak, 50dB(μV) average
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Pretest these a:Config A_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

modes to find b:Config A_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

the worst case: c:Config B_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

d:Config B_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

e:Config C_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

f:Config C_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

g:Config D_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

h:Config D_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

i:Config E_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

j:Config E_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

k:Config F_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

l:Config F_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

The worst case e:Config C_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

for final test: f:Config C_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

h:Config D_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

j:Config E_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

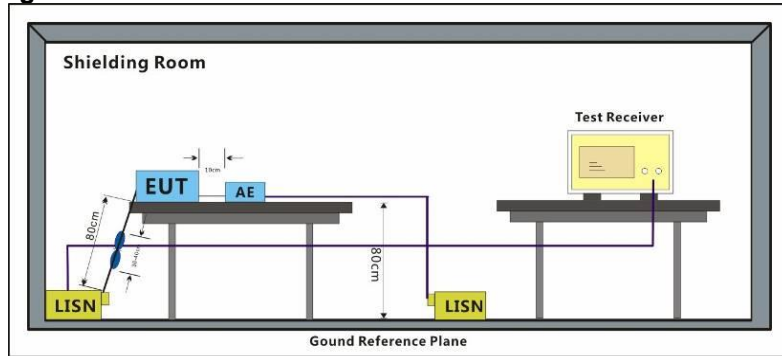


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6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

1. Result (dBuV) = Reading (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

Remark: From pretest, the test results with USB cable 2 are worse than those with USB cable 1, and the wireless charging mode is worse than the wired charging mode, only the wired charging and wireless charging test data when matched with USB cable 2 and wireless charging mode test data of other two battery configurations are shown in the report.

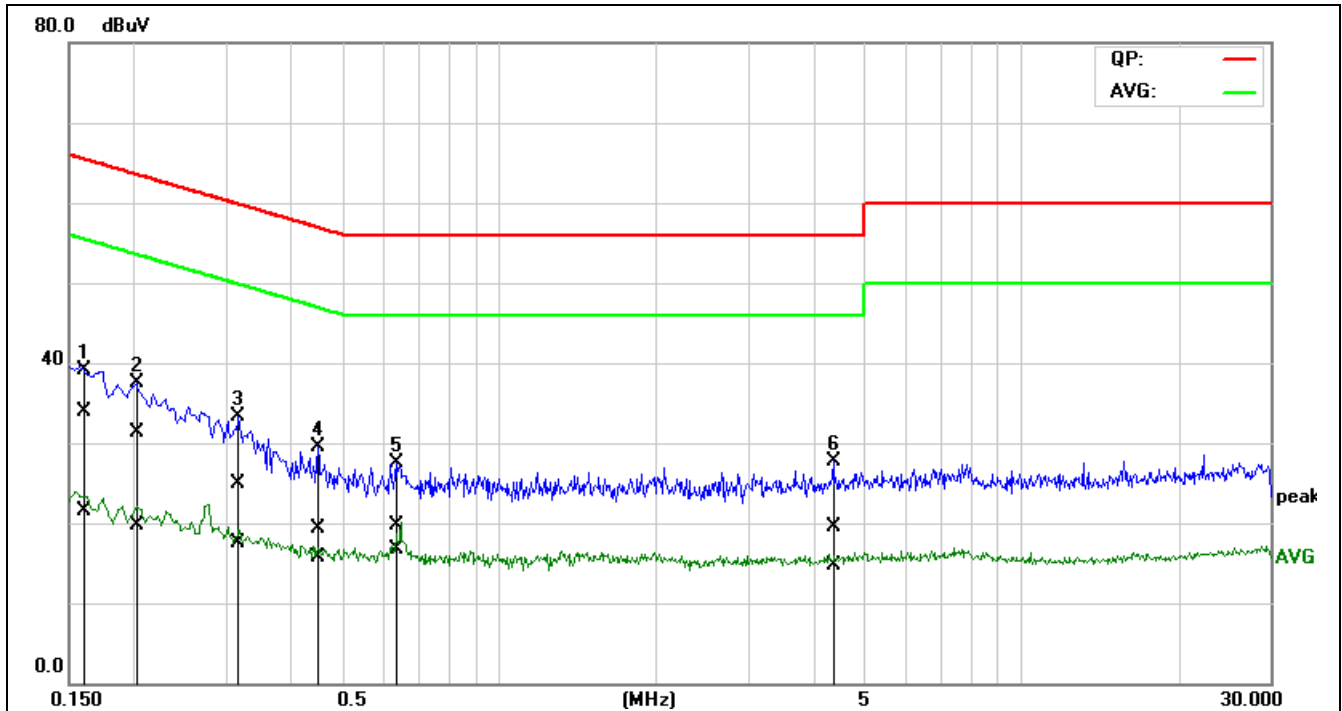


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Mode:e; Line:Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1620	14.50	1.95	19.46	33.96	21.41	65.36	55.36	-31.40	-33.95	Pass
2	0.1995	11.83	0.32	19.46	31.29	19.78	63.63	53.63	-32.34	-33.85	Pass
3	0.3189	5.36	-2.05	19.48	24.84	17.43	59.73	49.74	-34.89	-32.31	Pass
4	0.4521	-0.12	-3.80	19.52	19.40	15.72	56.84	46.84	-37.44	-31.12	Pass
5*	0.6378	0.10	-2.76	19.53	19.63	16.77	56.00	46.00	-36.37	-29.23	Pass
6	4.3348	-0.19	-4.93	19.71	19.52	14.78	56.00	46.00	-36.48	-31.22	Pass



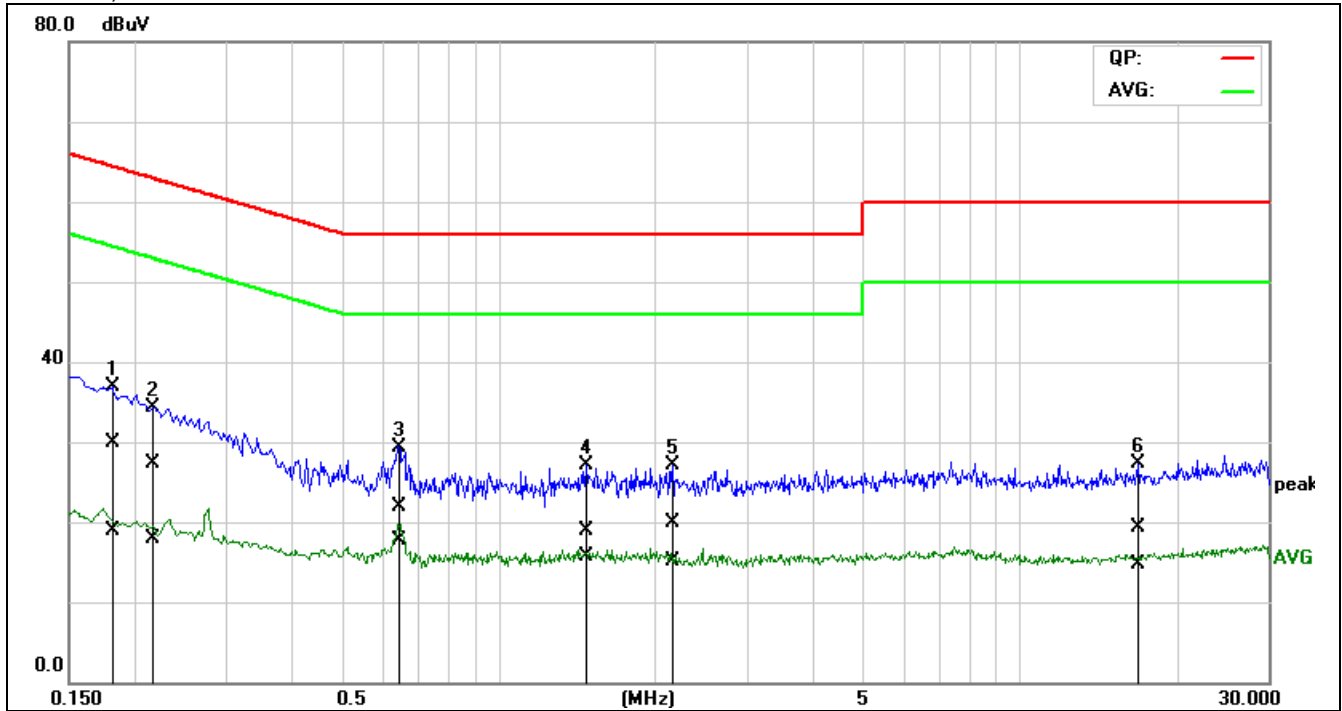
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No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1802	10.41	-0.50	19.43	29.84	18.93	64.47	54.48	-34.63	-35.55	Pass
2	0.2194	7.88	-1.49	19.43	27.31	17.94	62.84	52.84	-35.53	-34.90	Pass
3*	0.6508	2.34	-1.72	19.52	21.86	17.80	56.00	46.00	-34.14	-28.20	Pass
4	1.4756	-0.66	-3.79	19.55	18.89	15.76	56.00	46.00	-37.11	-30.24	Pass
5	2.1405	0.36	-4.47	19.58	19.94	15.11	56.00	46.00	-36.06	-30.89	Pass
6	16.8898	-0.79	-5.44	20.17	19.38	14.73	60.00	50.00	-40.62	-35.27	Pass



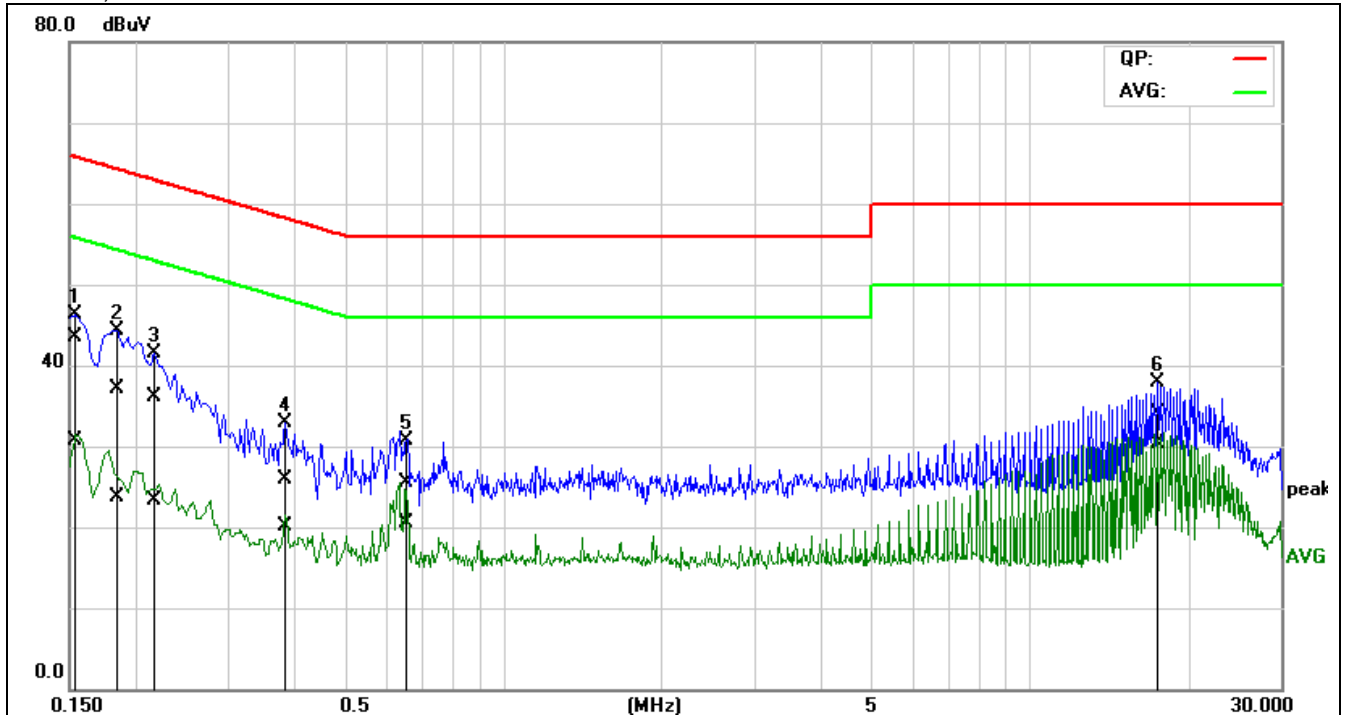
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No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1551	24.11	11.28	19.46	43.57	30.74	65.72	55.72	-22.15	-24.98	Pass
2	0.1862	17.57	4.20	19.46	37.03	23.66	64.20	54.20	-27.17	-30.54	Pass
3	0.2176	16.66	3.80	19.46	36.12	23.26	62.91	52.91	-26.79	-29.65	Pass
4	0.3887	6.48	0.57	19.50	25.98	20.07	58.09	48.09	-32.11	-28.02	Pass
5	0.6448	5.90	0.97	19.53	25.43	20.50	56.00	46.00	-30.57	-25.50	Pass
6*	17.4990	13.87	10.11	20.19	34.06	30.30	60.00	50.00	-25.94	-19.70	Pass



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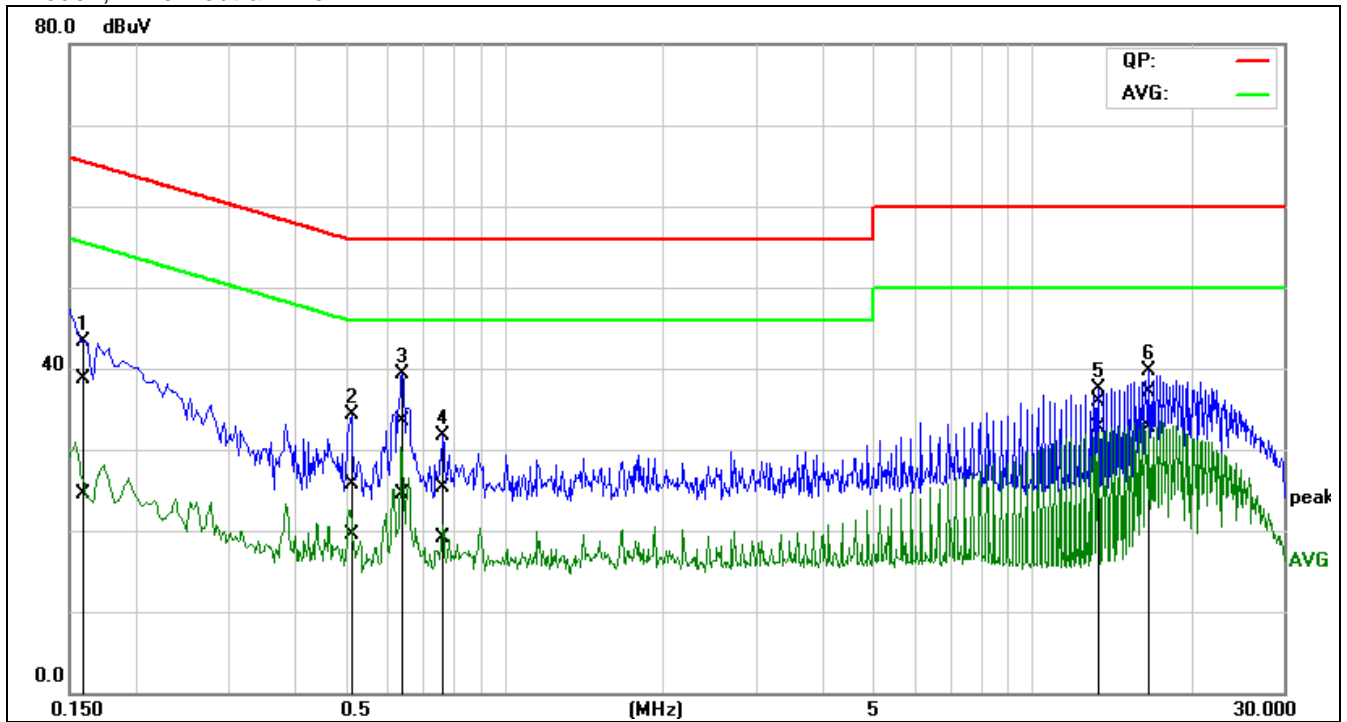
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No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1607	19.30	5.09	19.42	38.72	24.51	65.42	55.43	-26.70	-30.92	Pass
2	0.5091	6.13	0.05	19.51	25.64	19.56	56.00	46.00	-30.36	-26.44	Pass
3	0.6416	13.90	4.98	19.52	33.42	24.50	56.00	46.00	-22.58	-21.50	Pass
4	0.7678	5.79	-0.41	19.52	25.31	19.11	56.00	46.00	-30.69	-26.89	Pass
5	13.3818	15.91	12.69	20.07	35.98	32.76	60.00	50.00	-24.02	-17.24	Pass
6*	16.7245	16.90	12.61	20.16	37.06	32.77	60.00	50.00	-22.94	-17.23	Pass



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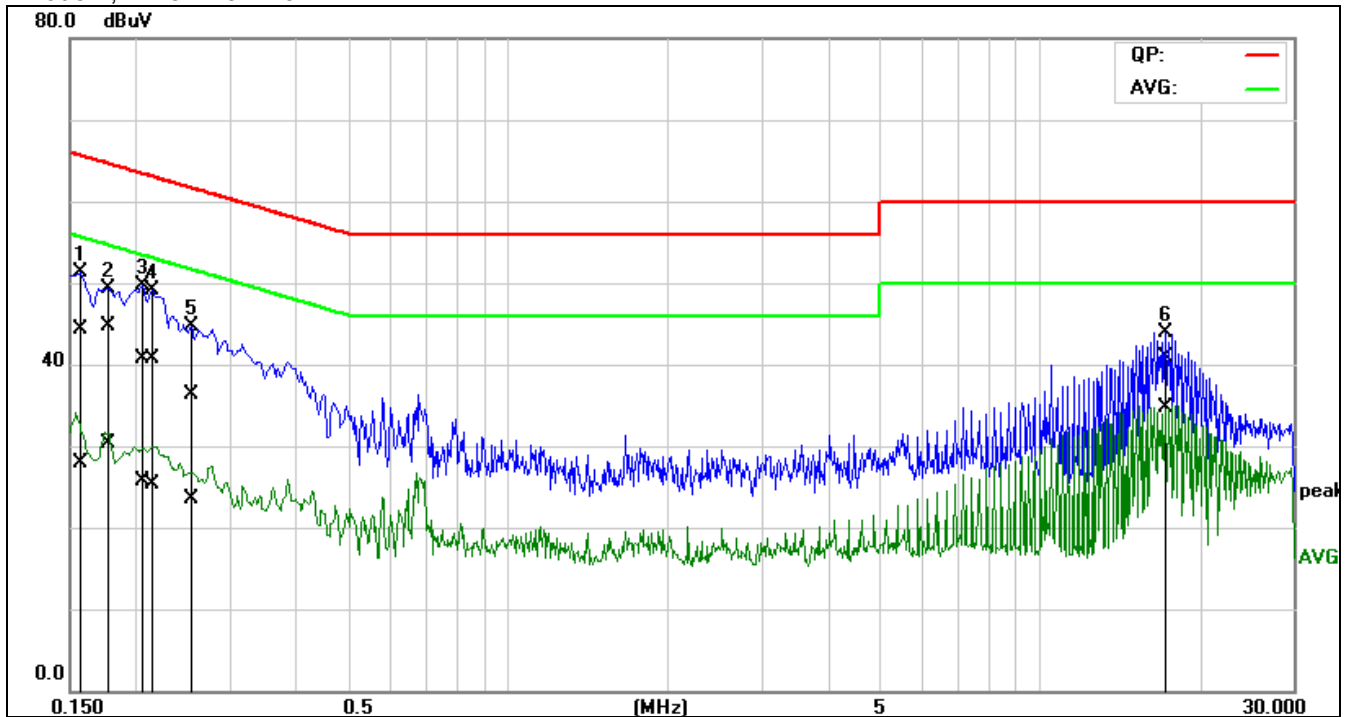
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No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1590	24.55	8.22	19.76	44.31	27.98	65.51	55.52	-21.20	-27.54	Pass
2	0.1741	24.95	10.51	19.76	44.71	30.27	64.76	54.76	-20.05	-24.49	Pass
3	0.2050	20.90	5.92	19.75	40.65	25.67	63.40	53.41	-22.75	-27.74	Pass
4	0.2114	21.03	5.46	19.75	40.78	25.21	63.15	53.15	-22.37	-27.94	Pass
5	0.2514	16.59	3.79	19.74	36.33	23.53	61.71	51.71	-25.38	-28.18	Pass
6*	17.2282	20.73	14.51	20.12	40.85	34.63	60.00	50.00	-19.15	-15.37	Pass



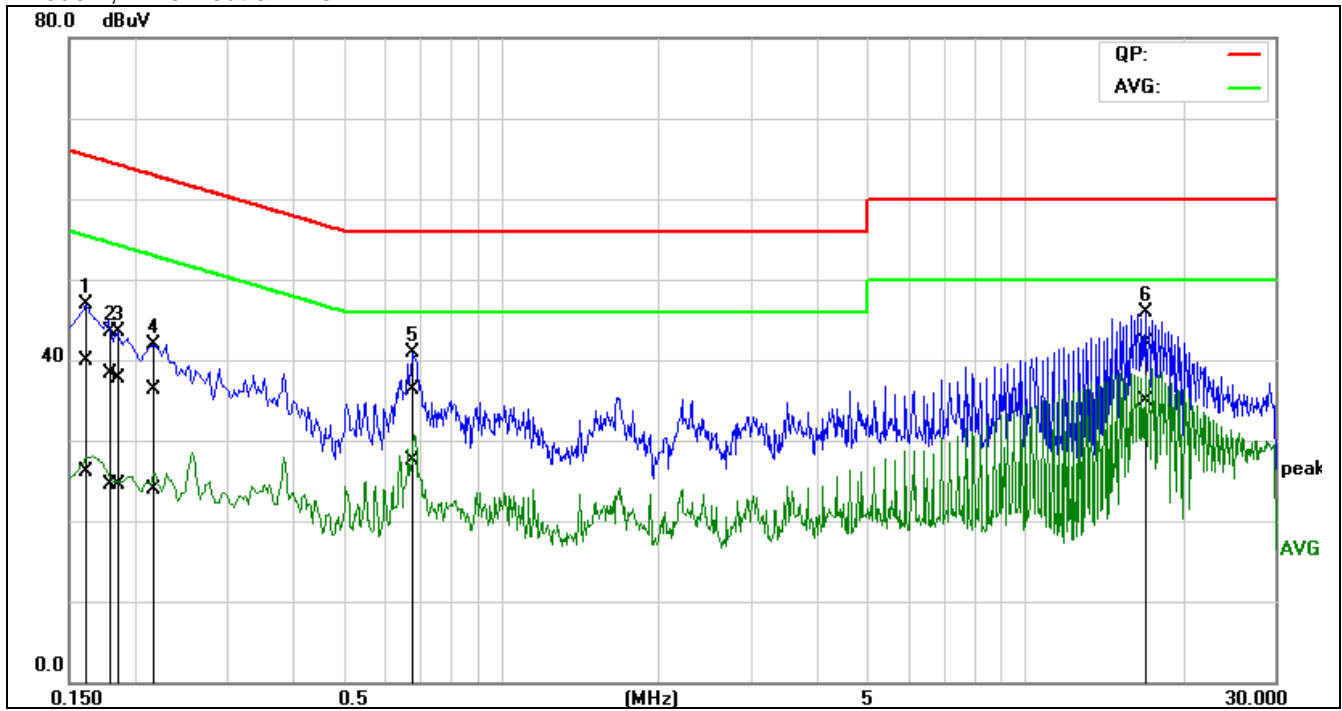
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Mode:h; Line:Neutral Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1620	20.12	6.42	19.76	39.88	26.18	65.36	55.36	-25.48	-29.18	Pass
2	0.1814	18.54	4.67	19.76	38.30	24.43	64.42	54.42	-26.12	-29.99	Pass
3	0.1840	17.85	4.80	19.76	37.61	24.56	64.30	54.30	-26.69	-29.74	Pass
4	0.2157	16.53	4.16	19.76	36.29	23.92	62.98	52.98	-26.69	-29.06	Pass
5	0.6775	16.50	7.80	19.73	36.23	27.53	56.00	46.00	-19.77	-18.47	Pass
6*	16.9771	21.95	14.76	20.09	42.04	34.85	60.00	50.00	-17.96	-15.15	Pass



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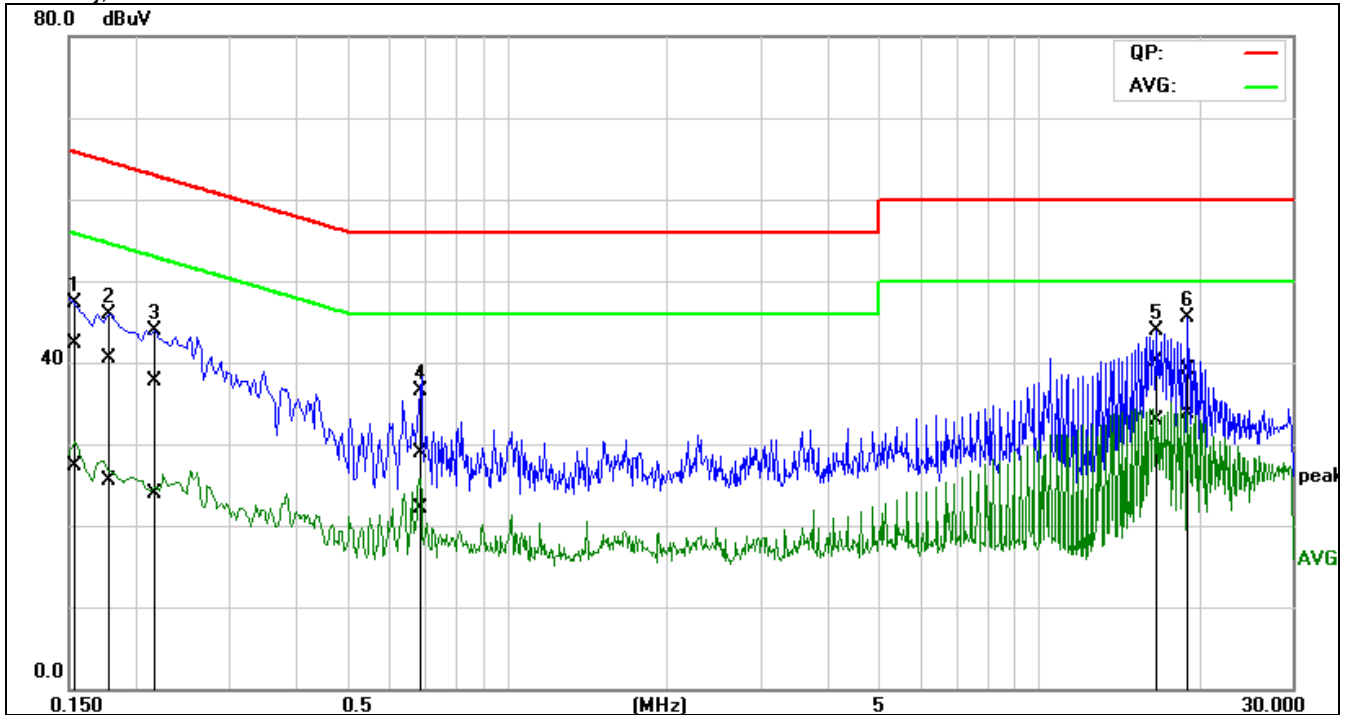
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No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1542	22.53	7.49	19.76	42.29	27.25	65.77	55.77	-23.48	-28.52	Pass
2	0.1778	20.74	5.69	19.75	40.49	25.44	64.58	54.59	-24.09	-29.15	Pass
3	0.2150	17.96	4.08	19.75	37.71	23.83	63.01	53.01	-25.30	-29.18	Pass
4	0.6756	9.14	2.33	19.73	28.87	22.06	56.00	46.00	-27.13	-23.94	Pass
5	16.7246	20.09	12.82	20.10	40.19	32.92	60.00	50.00	-19.81	-17.08	Pass
6*	19.0365	18.95	13.49	20.16	39.11	33.65	60.00	50.00	-20.89	-16.35	Pass



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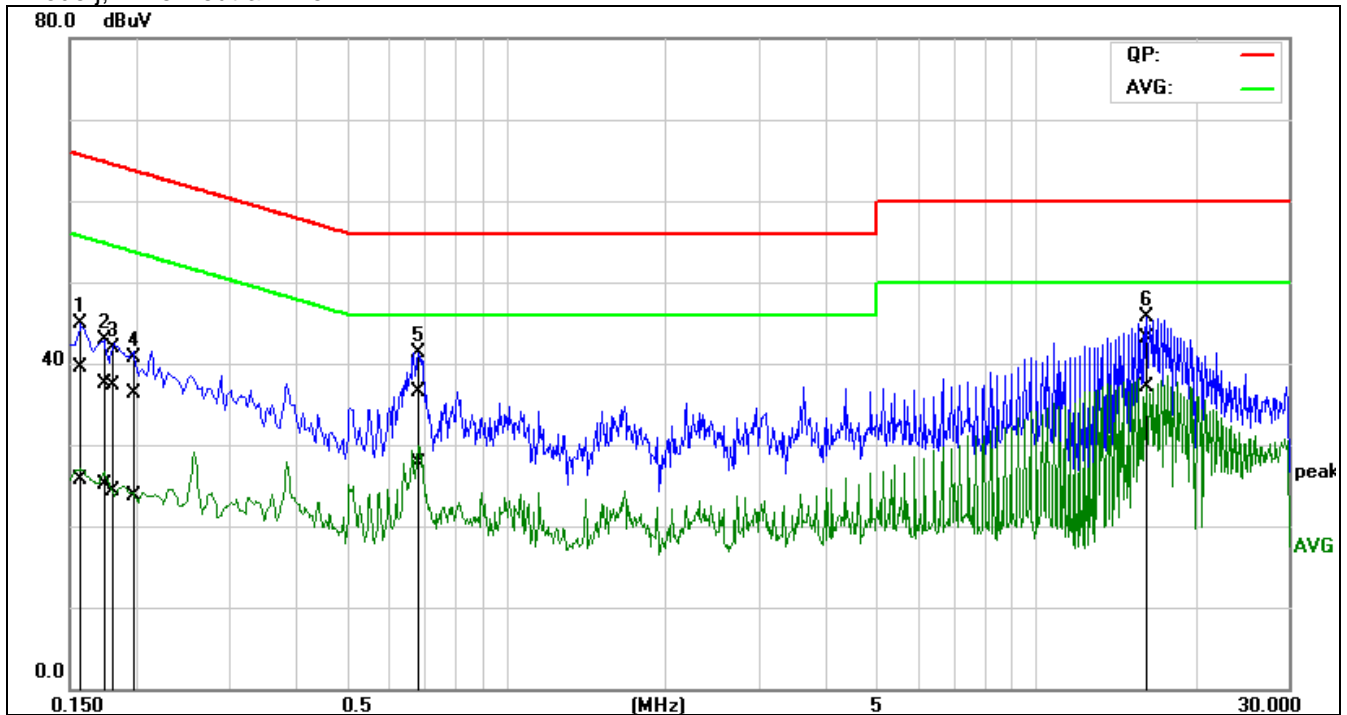
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No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1551	19.70	5.99	19.76	39.46	25.75	65.72	55.72	-26.26	-29.97	Pass
2	0.1751	17.79	5.44	19.76	37.55	25.20	64.71	54.71	-27.16	-29.51	Pass
3	0.1785	17.63	4.61	19.76	37.39	24.37	64.55	54.56	-27.16	-30.19	Pass
4	0.2000	16.53	3.93	19.76	36.29	23.69	63.61	53.61	-27.32	-29.92	Pass
5	0.6776	16.71	7.93	19.73	36.44	27.66	56.00	46.00	-19.56	-18.34	Pass
6*	16.2114	23.09	16.99	20.07	43.16	37.06	60.00	50.00	-16.84	-12.94	Pass



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 3m
 Limit:
 30MHz -88MHz 40.0(dBμV/m) quasi-peak
 88MHz-216MHz 43.5(dBμV/m) quasi-peak
 216MHz-960MHz 46.0(dBμV/m) quasi-peak
 960MHz-1000MHz 54.0(dBμV/m) quasi-peak
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case: a:Config A_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

b:Config A_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

c:Config B_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

d:Config B_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

e:Config C_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

f:Config C_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

g:Config D_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

h:Config D_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

i:Config E_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

j:Config E_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

k:Config F_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

l:Config F_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

The worst case for final test:

e:Config C_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

f:Config C_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

h:Config D_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

j:Config E_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

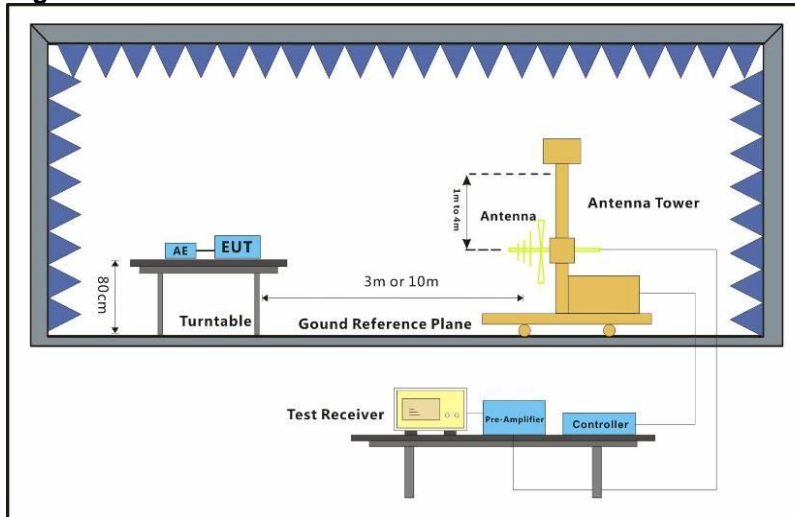


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6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

1.Result (dBuV/m) = Reading(dBuV) + Correction Factor (dB/m)

2.Correction Factor (dB/m)=Antenna Factor (dB/m)+Cable Loss (dB)- Amplifier (dB)

Remark: From pretest, the test results with USB cable 2 are worse than those with USB cable 1, and the wireless charging mode is worse than the wired charging mode, only the wired charging and wireless charging test data when matched with USB cable2 and wireless charging mode test data of other two battery configurations are shown in the report.



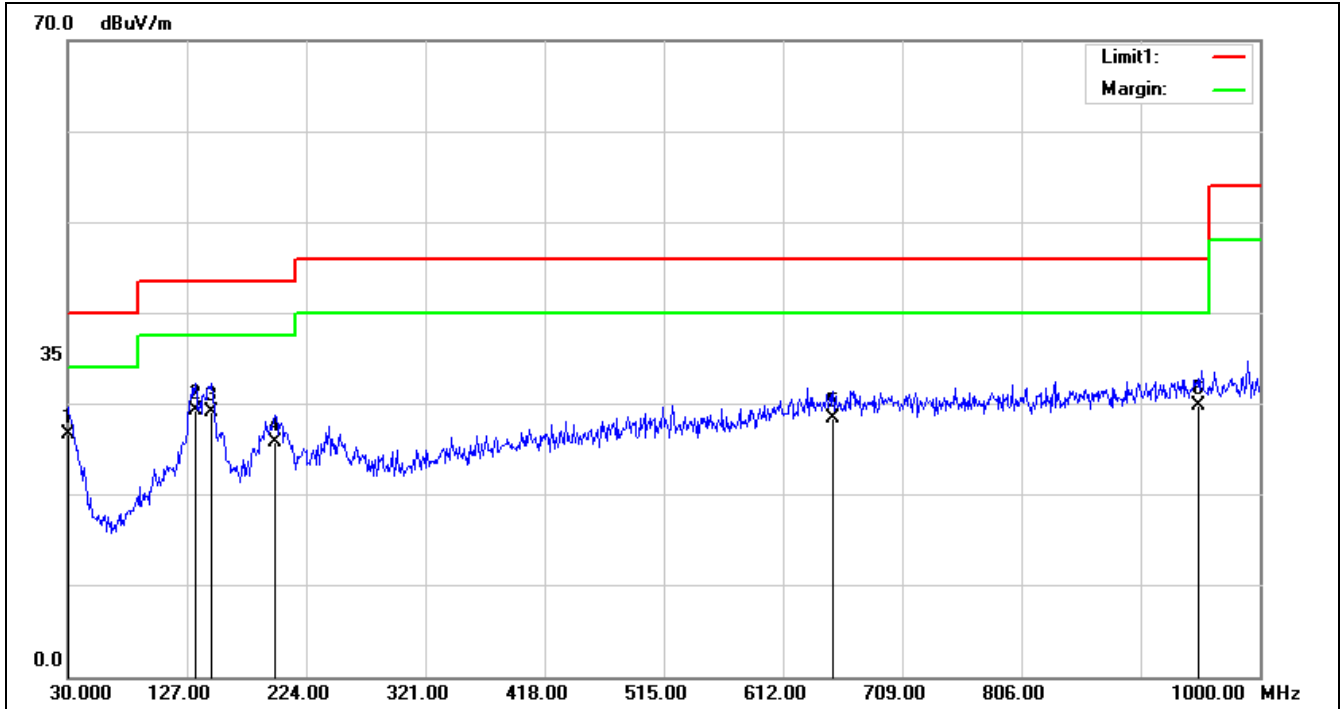
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Mode:e; Polarization:Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.0000	0.75	25.93	26.68	40.00	-13.32	200	123	QP
2	133.7900	9.65	19.61	29.26	43.50	-14.24	100	328	QP
3	146.4000	9.18	20.02	29.20	43.50	-14.30	100	324	QP
4	198.7800	9.39	16.34	25.73	43.50	-17.77	200	360	QP
5	652.7400	1.30	27.13	28.43	46.00	-17.57	200	351	QP
6	950.5300	0.56	29.30	29.86	46.00	-16.14	100	310	QP

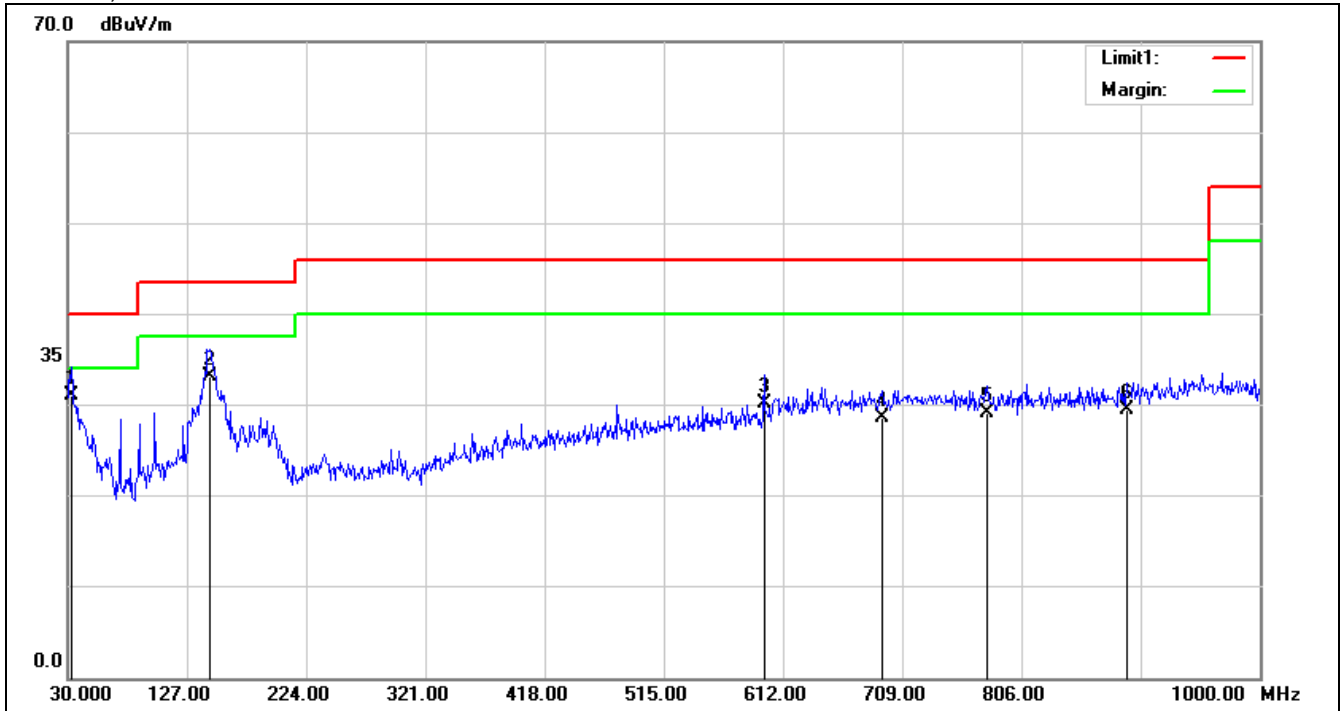
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Mode:e; Polarization:Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	32.9100	6.87	24.27	31.14	40.00	-8.86	200	238	QP
2	145.4300	13.15	19.99	33.14	43.50	-10.36	100	215	QP
3	596.4800	3.80	26.46	30.26	46.00	-15.74	100	13	QP
4	692.5100	1.19	27.44	28.63	46.00	-17.37	100	285	QP
5	777.8700	1.50	27.68	29.18	46.00	-16.82	100	327	QP
6	891.3600	0.84	28.57	29.41	46.00	-16.59	100	242	QP



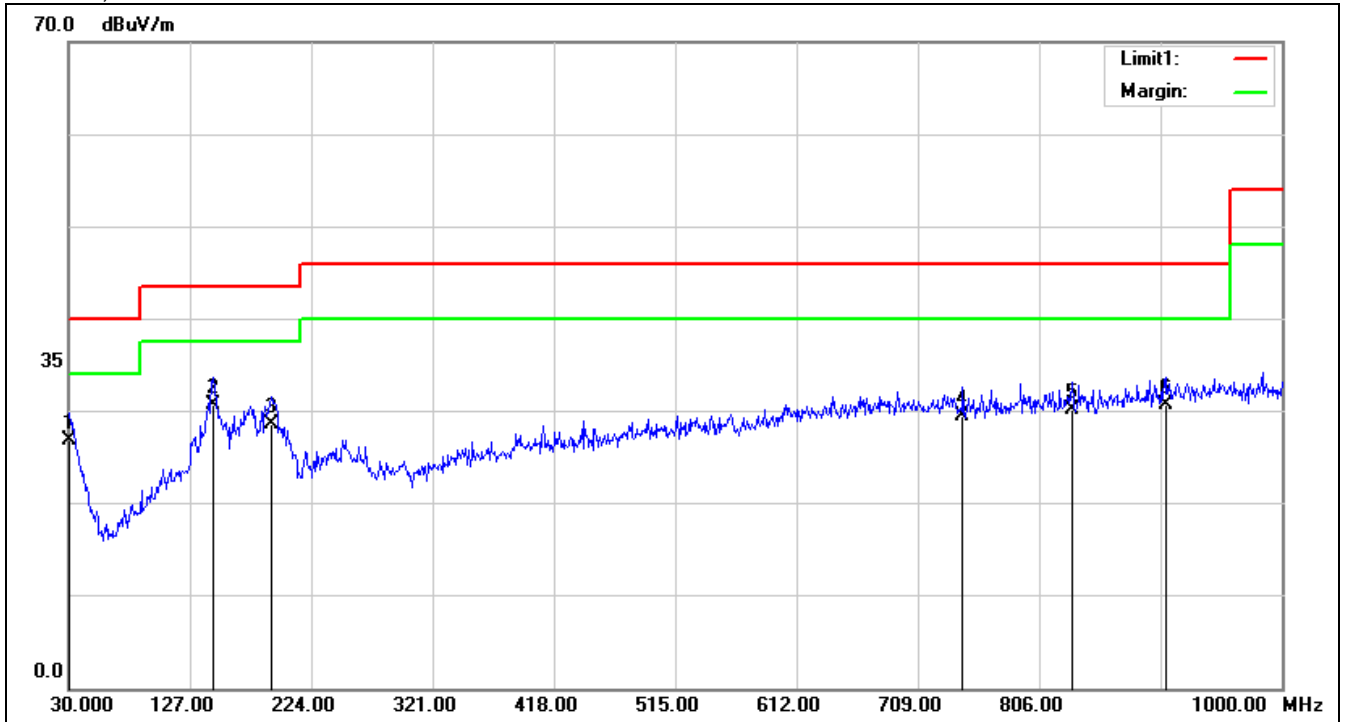
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Mode:f; Polarization:Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	1.47	25.38	26.85	40.00	-13.15	200	315	QP
2	145.4300	10.66	19.99	30.65	43.50	-12.85	200	326	QP
3	191.9900	11.76	16.87	28.63	43.50	-14.87	200	13	QP
4	744.8900	2.08	27.48	29.56	46.00	-16.44	200	115	QP
5	832.1900	2.20	27.99	30.19	46.00	-15.81	100	61	QP
6	906.8800	1.96	28.76	30.72	46.00	-15.28	100	253	QP

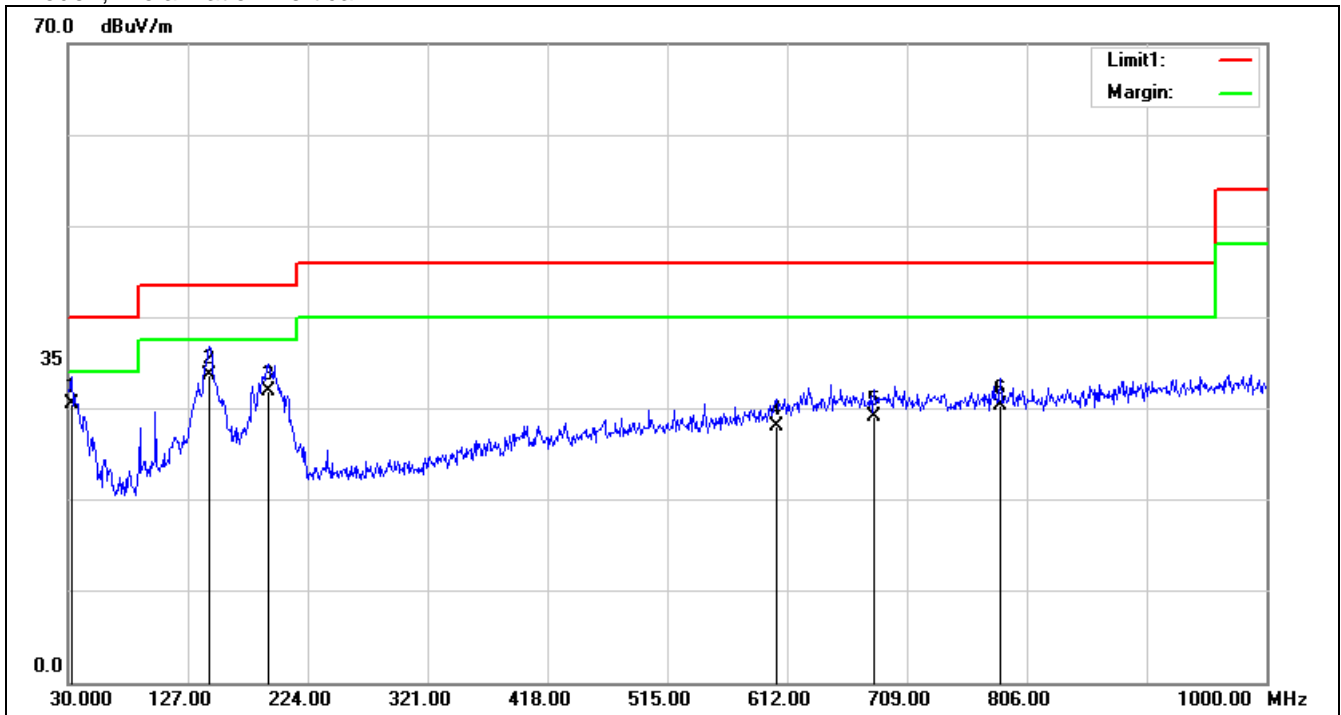
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Mode:f; Polarization:Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	32.9100	6.33	24.27	30.60	40.00	-9.40	100	5	QP
2	144.4600	13.81	19.96	33.77	43.50	-9.73	100	212	QP
3	191.9900	15.12	16.87	31.99	43.50	-11.51	100	193	QP
4	603.2700	1.52	26.55	28.07	46.00	-17.93	200	286	QP
5	681.8400	1.75	27.36	29.11	46.00	-16.89	100	5	QP
6	784.6600	2.67	27.72	30.39	46.00	-15.61	100	249	QP

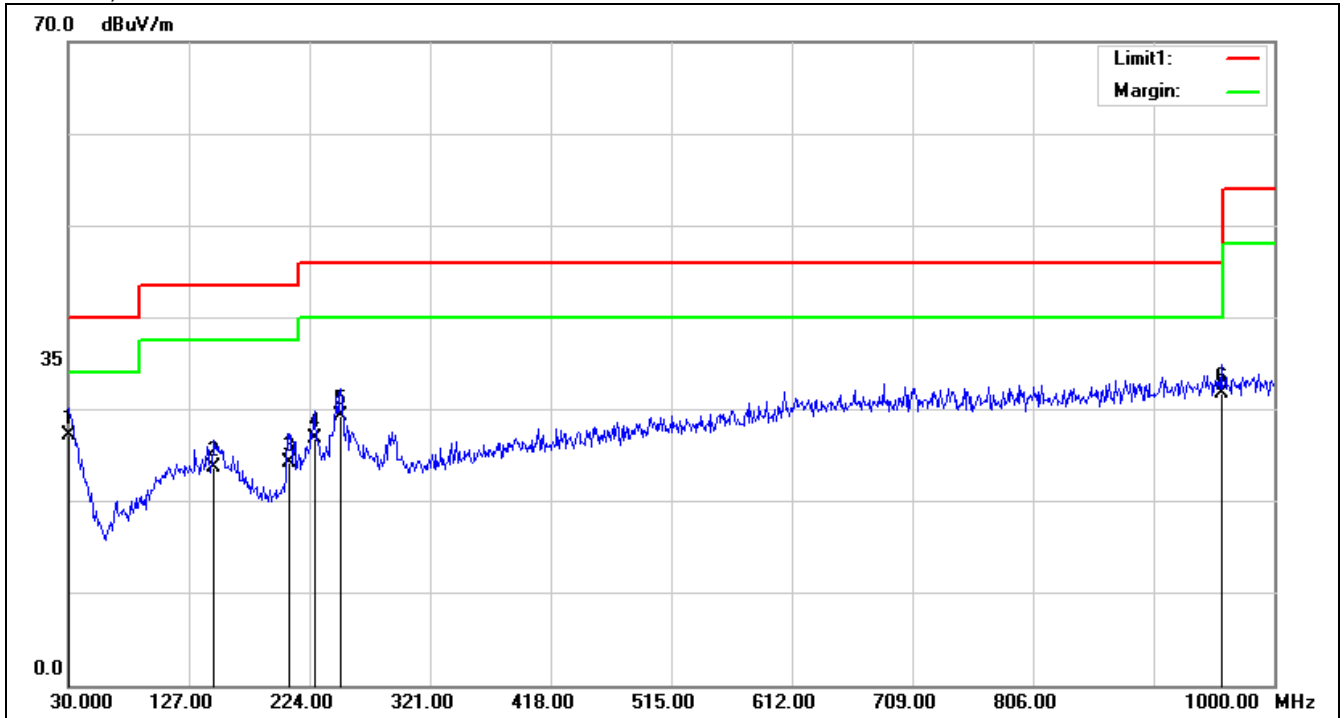
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Mode:h; Polarization:Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.0000	1.20	25.93	27.13	40.00	-12.87	100	162	QP
2	147.3700	3.72	20.05	23.77	43.50	-19.73	100	22	QP
3	207.5100	7.61	16.71	24.32	43.50	-19.18	100	360	QP
4	227.8800	8.88	17.96	26.84	46.00	-19.16	100	360	QP
5	249.2200	10.09	19.27	29.36	46.00	-16.64	100	360	QP
6	957.3200	2.54	29.29	31.83	46.00	-14.17	100	130	QP

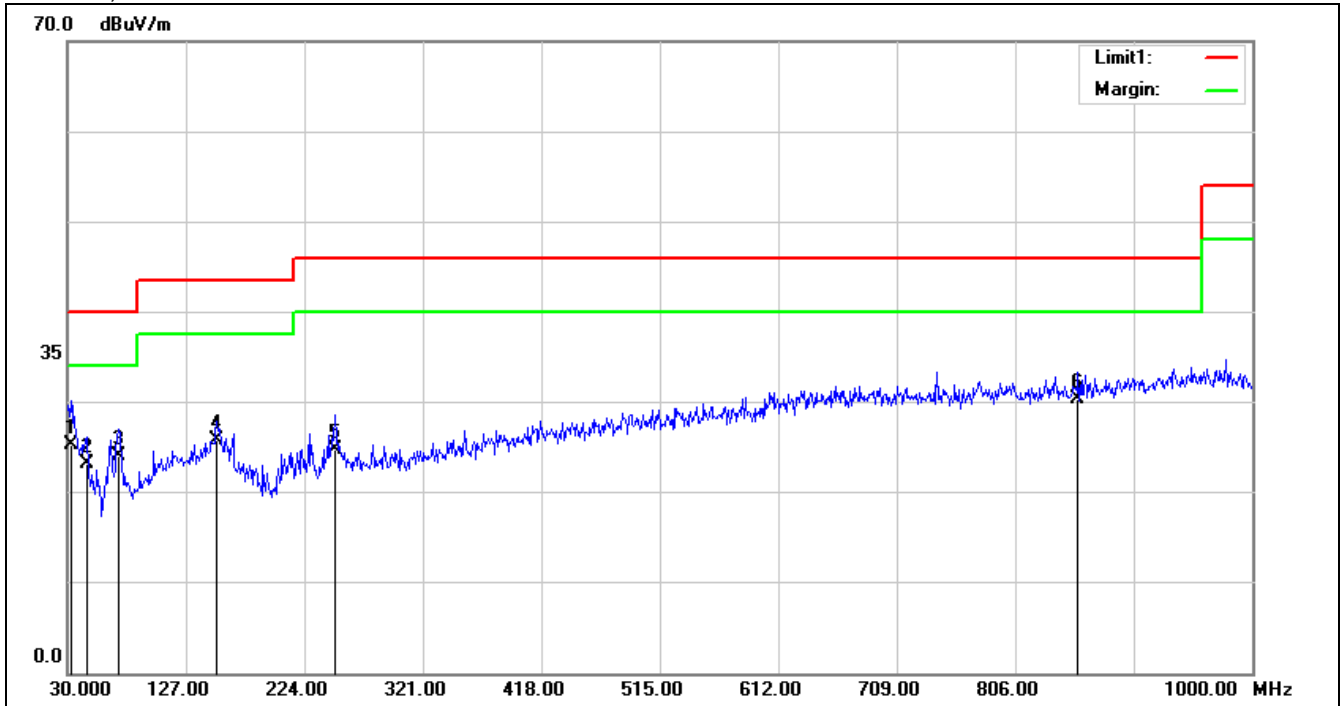
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Mode:h; Polarization:Vertical



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1	32.9100	0.94	24.27	25.21	40.00	-14.79	100	252	QP
2	45.5200	5.95	17.16	23.11	40.00	-16.89	100	146	QP
3	71.7100	10.05	14.00	24.05	40.00	-15.95	100	157	QP
4	152.2200	5.88	19.97	25.85	43.50	-17.65	100	173	QP
5	249.2200	5.42	19.27	24.69	46.00	-21.31	100	35	QP
6	857.4100	2.17	28.17	30.34	46.00	-15.66	100	181	QP

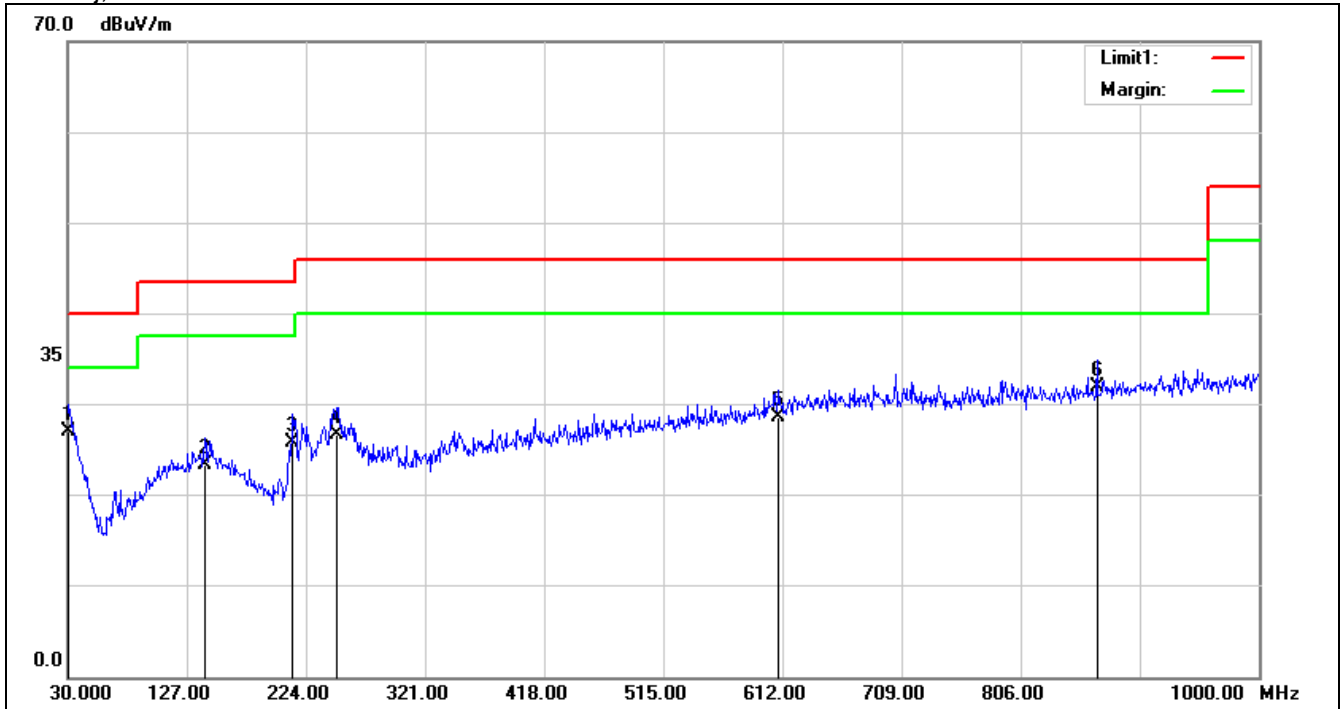
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Mode:j; Polarization:Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.0000	1.13	25.93	27.06	40.00	-12.94	100	325	QP
2	141.5500	3.51	19.86	23.37	43.50	-20.13	100	230	QP
3	213.3300	8.82	17.07	25.89	43.50	-17.61	100	328	QP
4	249.2200	7.46	19.27	26.73	46.00	-19.27	100	8	QP
5	609.0900	2.01	26.62	28.63	46.00	-17.37	100	334	QP
6	868.0800	3.66	28.29	31.95	46.00	-14.05	100	106	QP

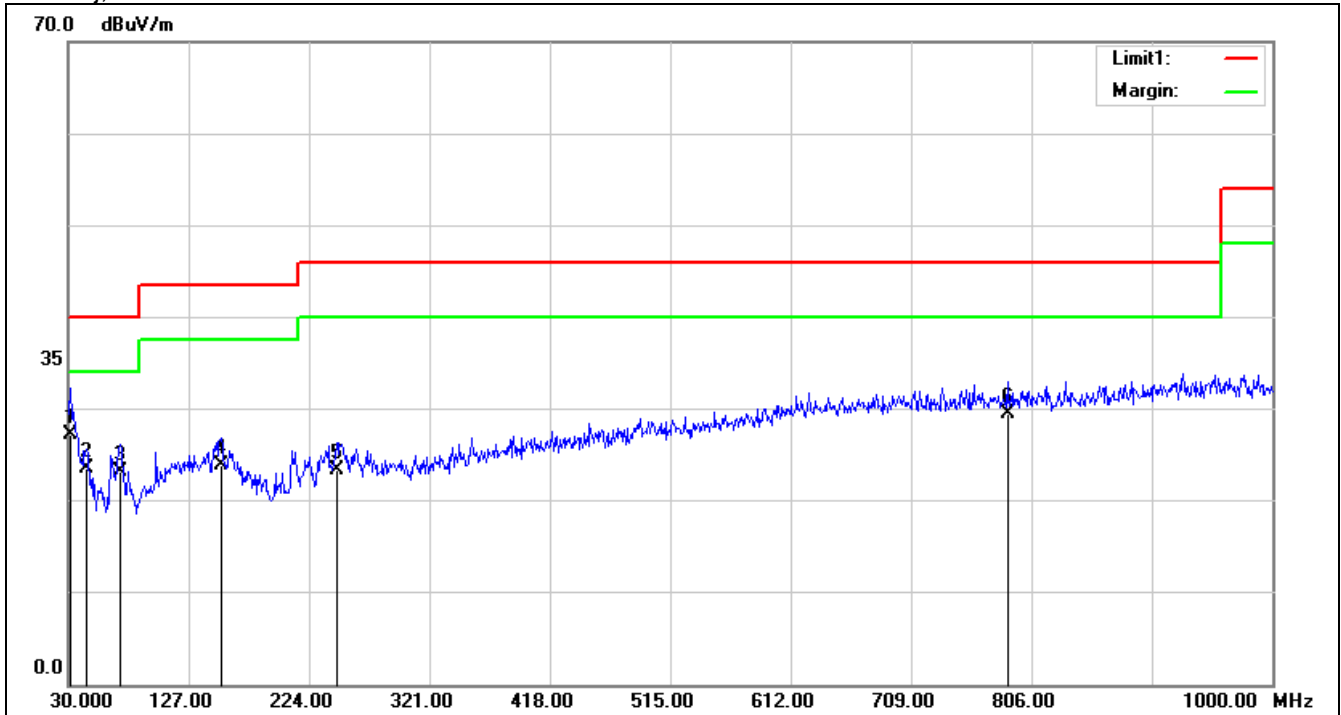
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Mode:j; Polarization:Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.9400	2.45	24.82	27.27	40.00	-12.73	100	305	QP
2	44.5500	5.92	17.70	23.62	40.00	-16.38	100	1	QP
3	71.7100	9.23	14.00	23.23	40.00	-16.77	100	138	QP
4	153.1900	4.01	19.89	23.90	43.50	-19.60	100	195	QP
5	246.3100	4.31	19.09	23.40	46.00	-22.60	100	174	QP
6	786.6000	1.70	27.74	29.44	46.00	-16.56	100	326	QP



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6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Frequency Range: Above 1GHz
Measurement Distance: 3m
Limit:
Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Pretest these a:Config A_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

modes to find b:Config A_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

the worst case: c:Config B_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

d:Config B_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

e:Config C_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

f:Config C_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

g:Config D_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

h:Config D_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

i:Config E_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

j:Config E_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

k:Config F_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

l:Config F_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

The worst case e:Config C_Wired charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

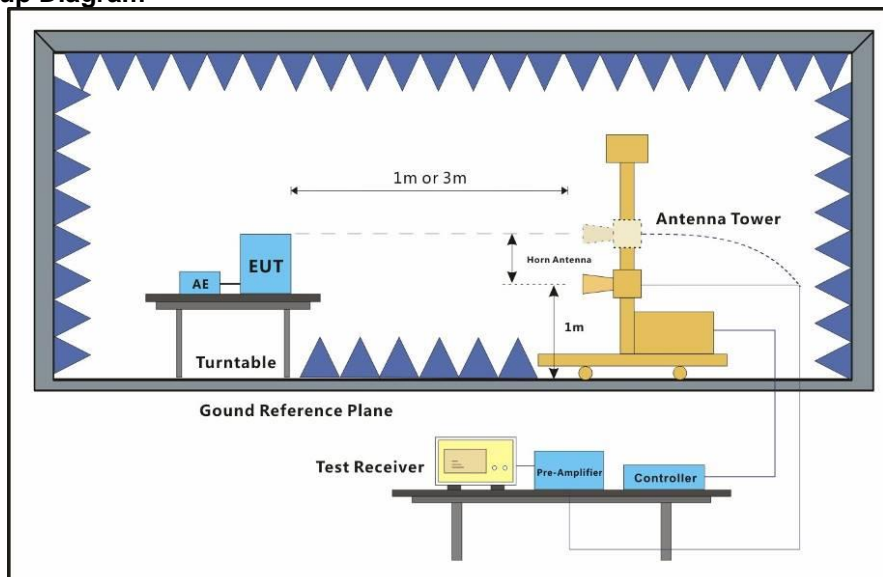
for final test: f:Config C_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

h:Config D_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.

j:Config E_Wireless charging_Keep the earbuds charging in charging case and playing music through bluetooth by mobile phone.



6.3.2 Test Setup Diagram



6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

1.Result (dBuV/m) = Reading(dBuV) + Correction Factor (dB/m)

2.Correction Factor (dB/m)=Antenna Factor (dB/m)+Cable Loss (dB)- Amplifier (dB)

Remark: From pretest, the test results with USB cable 2 are worse than those with USB cable 1, and the wireless charging mode is worse than the wired charging mode, only the wired charging and wireless charging test data when matched with USB cable2 and wireless charging mode test data of other two battery configurations are shown in the report.

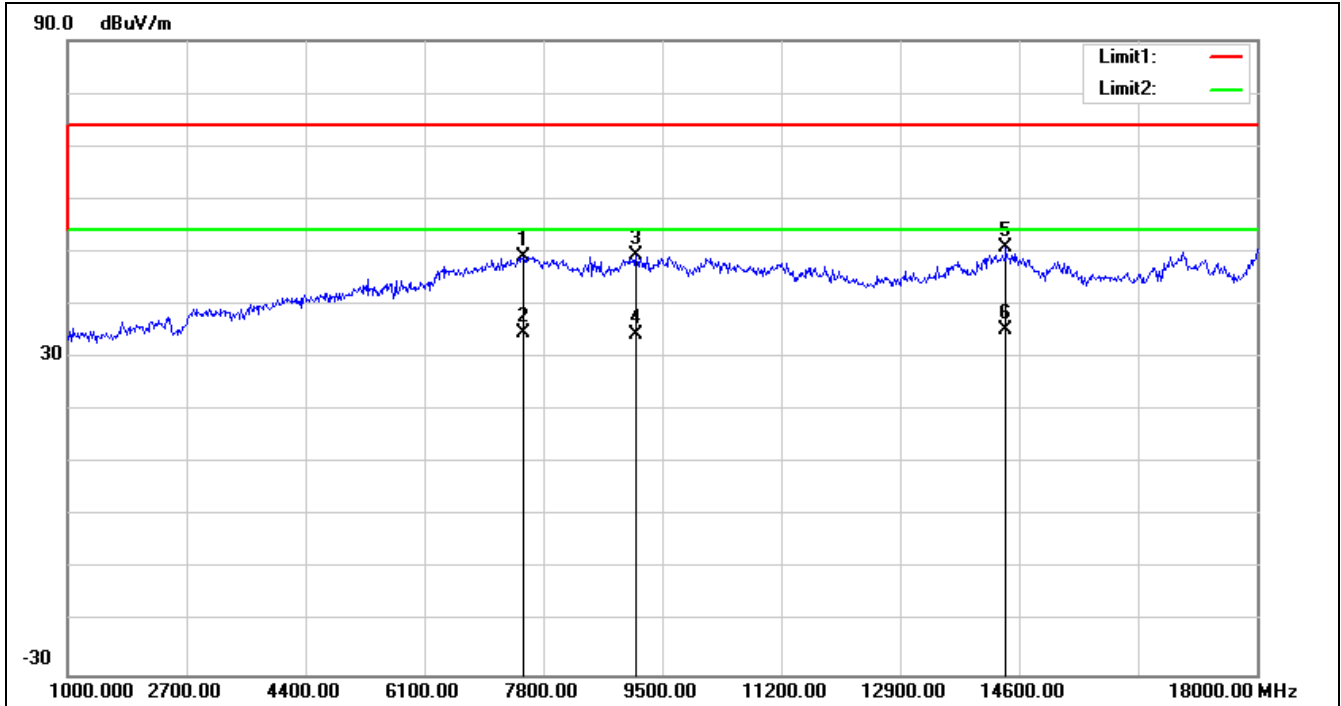


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Mode:e; Polarization:Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	7511.000	45.51	3.68	49.19	74.00	-24.81	100	359	peak
2	7511.000	30.99	3.68	34.67	54.00	-19.33	100	359	AVG
3	9126.000	44.00	5.28	49.28	74.00	-24.72	100	216	peak
4	9126.000	28.94	5.28	34.22	54.00	-19.78	100	216	AVG
5	14413.000	39.13	11.79	50.92	74.00	-23.08	100	280	peak
6	14413.000	23.38	11.79	35.17	54.00	-18.83	100	280	AVG

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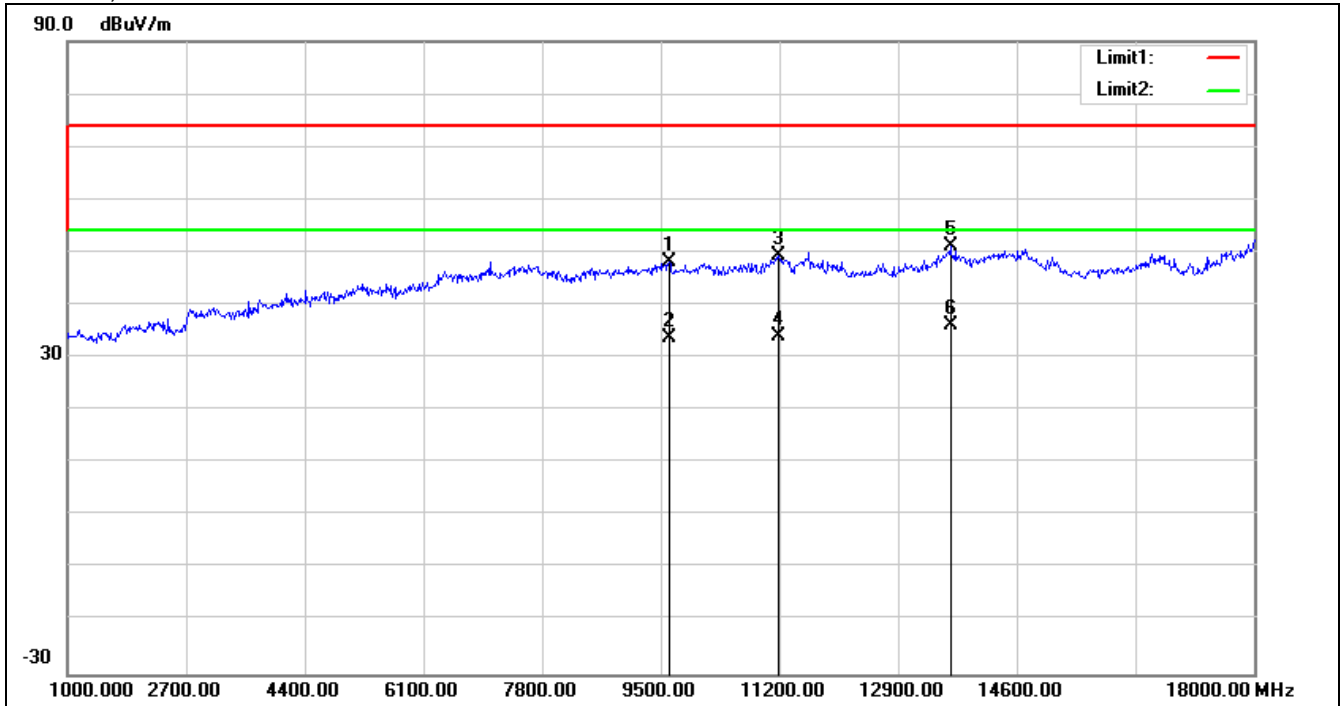
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Mode:e; Polarization:Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	9619.000	41.76	6.35	48.11	74.00	-25.89	100	282	peak
2	9619.000	27.40	6.35	33.75	54.00	-20.25	100	282	AVG
3	11183.000	39.29	9.96	49.25	74.00	-24.75	100	134	peak
4	11183.000	24.23	9.96	34.19	54.00	-19.81	100	134	AVG
5	13648.000	40.40	10.72	51.12	74.00	-22.88	100	211	peak
6	13648.000	25.53	10.72	36.25	54.00	-17.75	100	211	AVG

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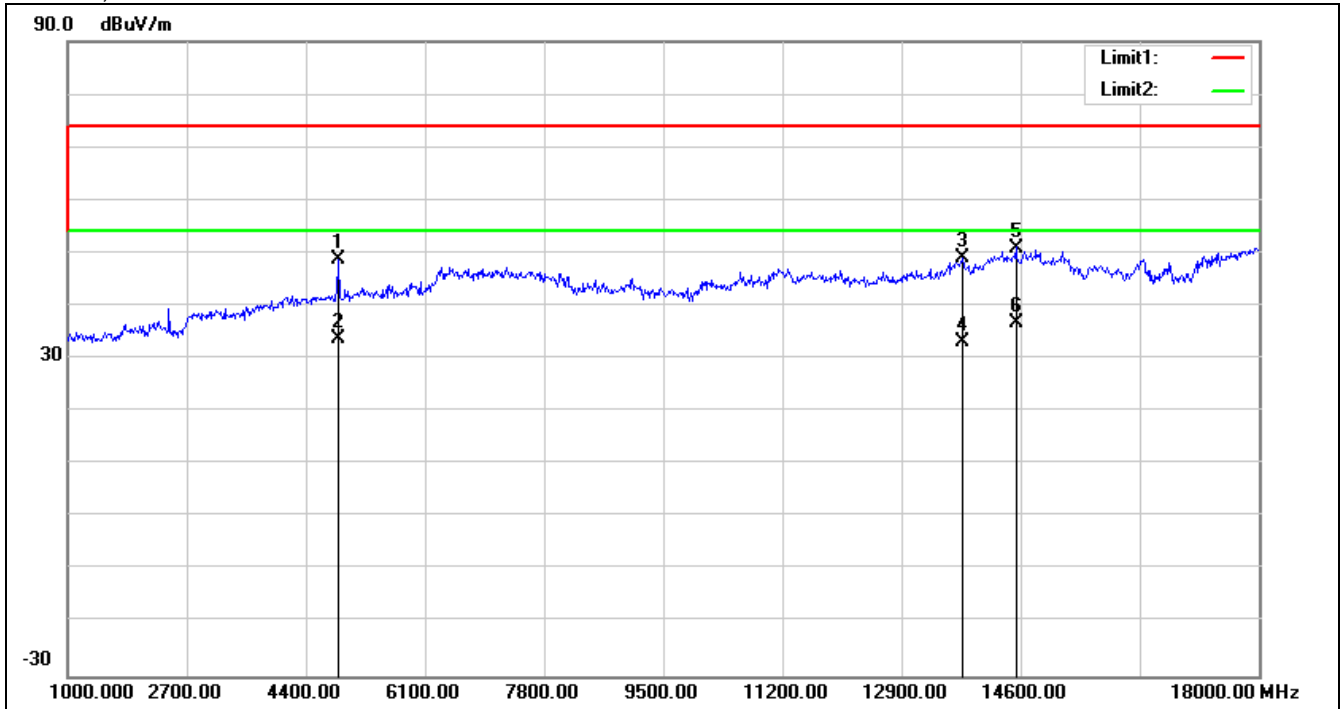
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Mode:f; Polarization:Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4859.000	52.35	-3.74	48.61	74.00	-25.39	100	333	peak
2	4859.000	37.39	-3.74	33.65	54.00	-20.35	100	333	AVG
3	13767.000	38.17	10.77	48.94	74.00	-25.06	100	359	peak
4	13767.000	22.28	10.77	33.05	54.00	-20.95	100	359	AVG
5	14532.000	39.08	11.92	51.00	74.00	-23.00	100	96	peak
6	14532.000	24.97	11.92	36.89	54.00	-17.11	100	96	AVG



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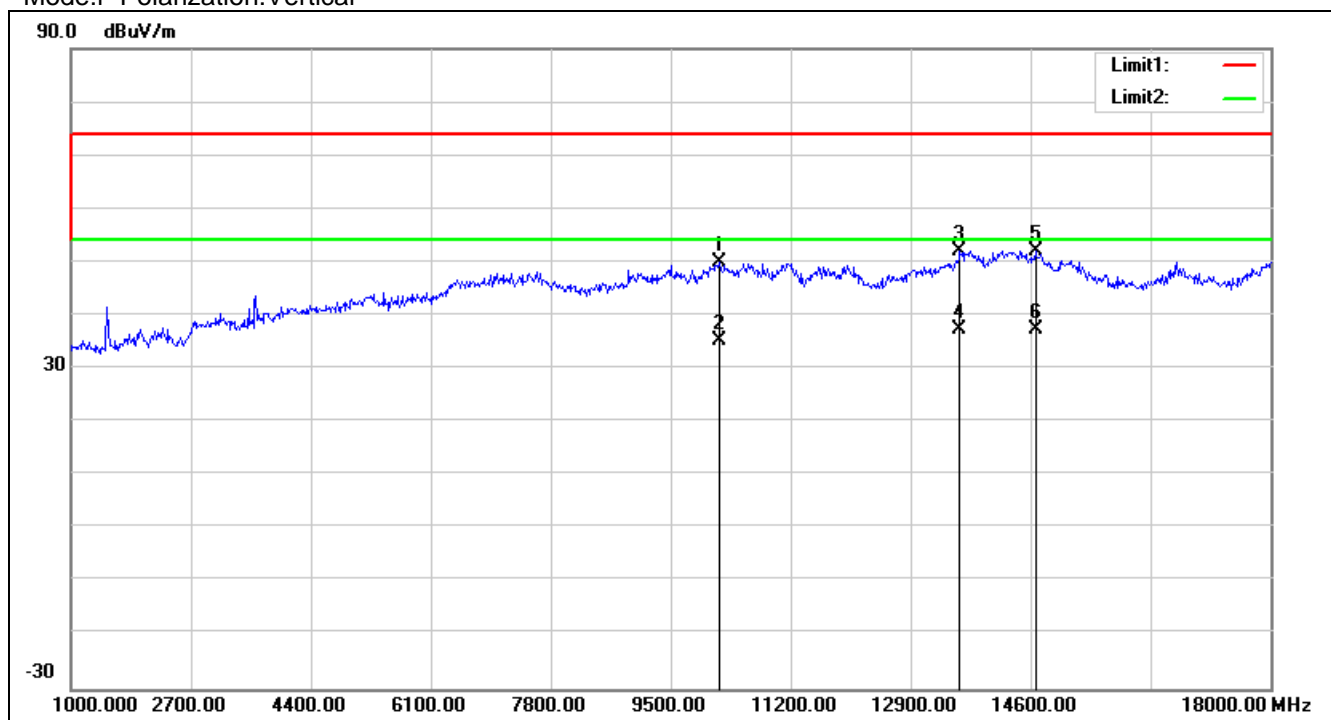
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	10197.000	42.53	7.55	50.08	74.00	-23.92	100	1	peak
2	10197.000	27.63	7.55	35.18	54.00	-18.82	100	1	AVG
3	13597.000	41.48	10.70	52.18	74.00	-21.82	100	15	peak
4	13597.000	26.56	10.70	37.26	54.00	-16.74	100	15	AVG
5	14668.000	40.44	11.64	52.08	74.00	-21.92	100	265	peak
6	14668.000	25.61	11.64	37.25	54.00	-16.75	100	265	AVG



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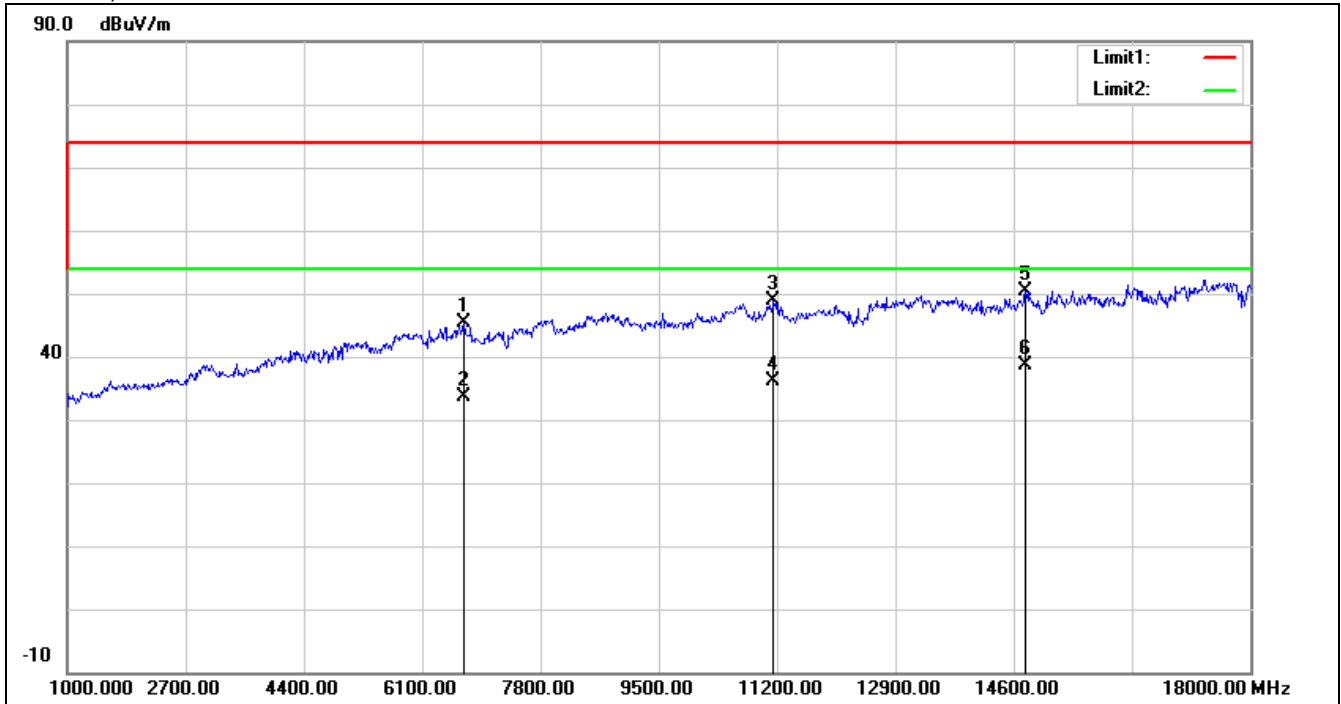
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Mode:h; Polarization:Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	6695.000	43.28	2.01	45.29	74.00	-28.71	100	203	peak
2	6695.000	31.65	2.01	33.66	54.00	-20.34	100	95	AVG
3	11149.000	39.04	9.91	48.95	74.00	-25.05	100	44	peak
4	11149.000	26.29	9.91	36.20	54.00	-17.80	100	339	AVG
5	14770.000	38.89	11.43	50.32	74.00	-23.68	100	304	peak
6	14770.000	27.18	11.43	38.61	54.00	-15.39	100	199	AVG



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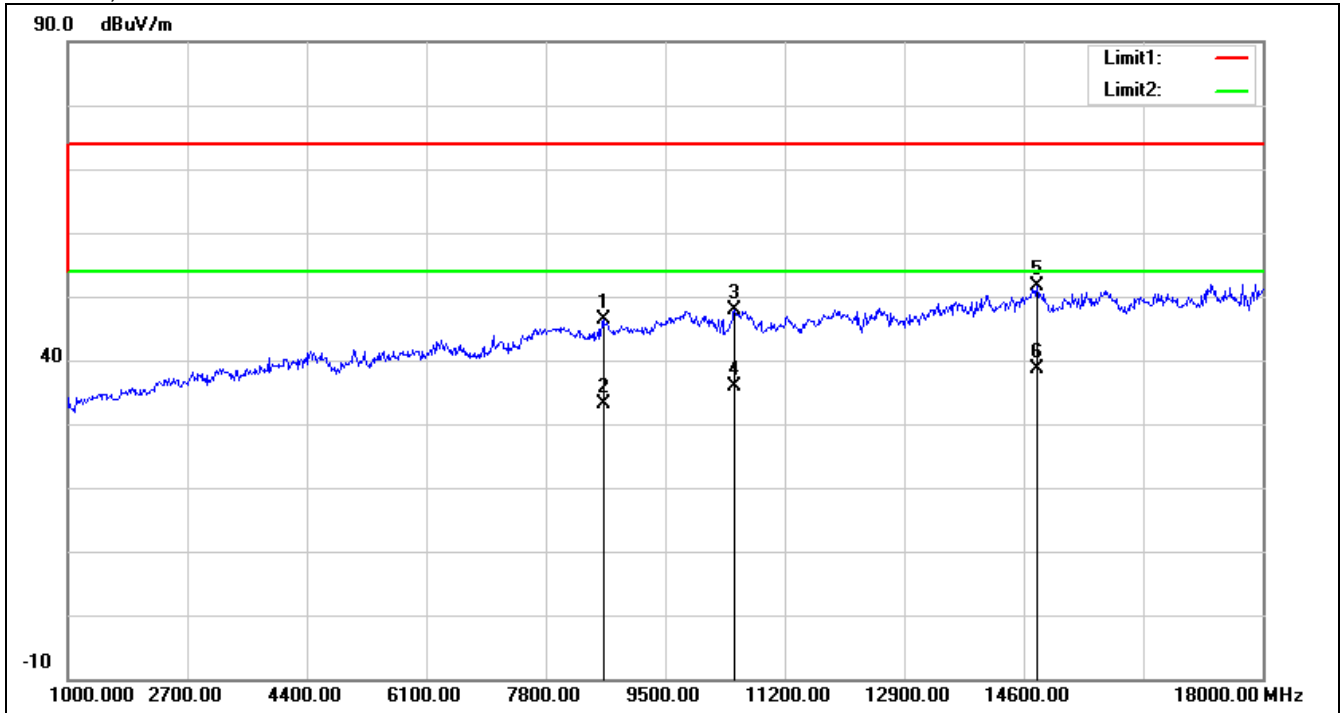
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	8616.000	42.47	3.90	46.37	74.00	-27.63	100	80	peak
2	8616.000	29.18	3.90	33.08	54.00	-20.92	100	238	AVG
3	10486.000	39.05	8.87	47.92	74.00	-26.08	100	302	peak
4	10486.000	27.09	8.87	35.96	54.00	-18.04	100	241	AVG
5	14787.000	40.12	11.40	51.52	74.00	-22.48	100	320	peak
6	14787.000	27.15	11.40	38.55	54.00	-15.45	100	48	AVG



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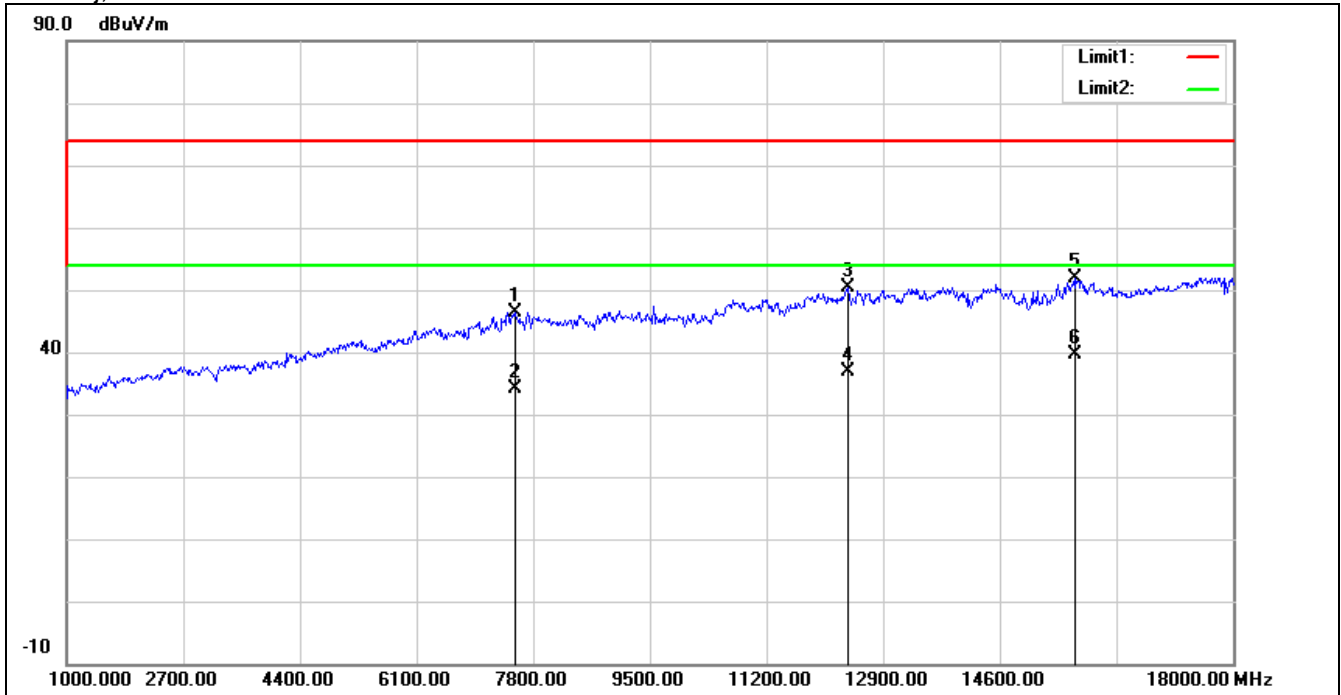
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Mode:j; Polarization:Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	7528.000	42.80	3.67	46.47	74.00	-27.53	100	302	peak
2	7528.000	30.49	3.67	34.16	54.00	-19.84	100	298	AVG
3	12390.000	41.30	8.97	50.27	74.00	-23.73	100	130	peak
4	12390.000	27.93	8.97	36.90	54.00	-17.10	100	31	AVG
5	15705.000	43.88	7.92	51.80	74.00	-22.20	100	288	peak
6	15705.000	31.63	7.92	39.55	54.00	-14.45	100	34	AVG

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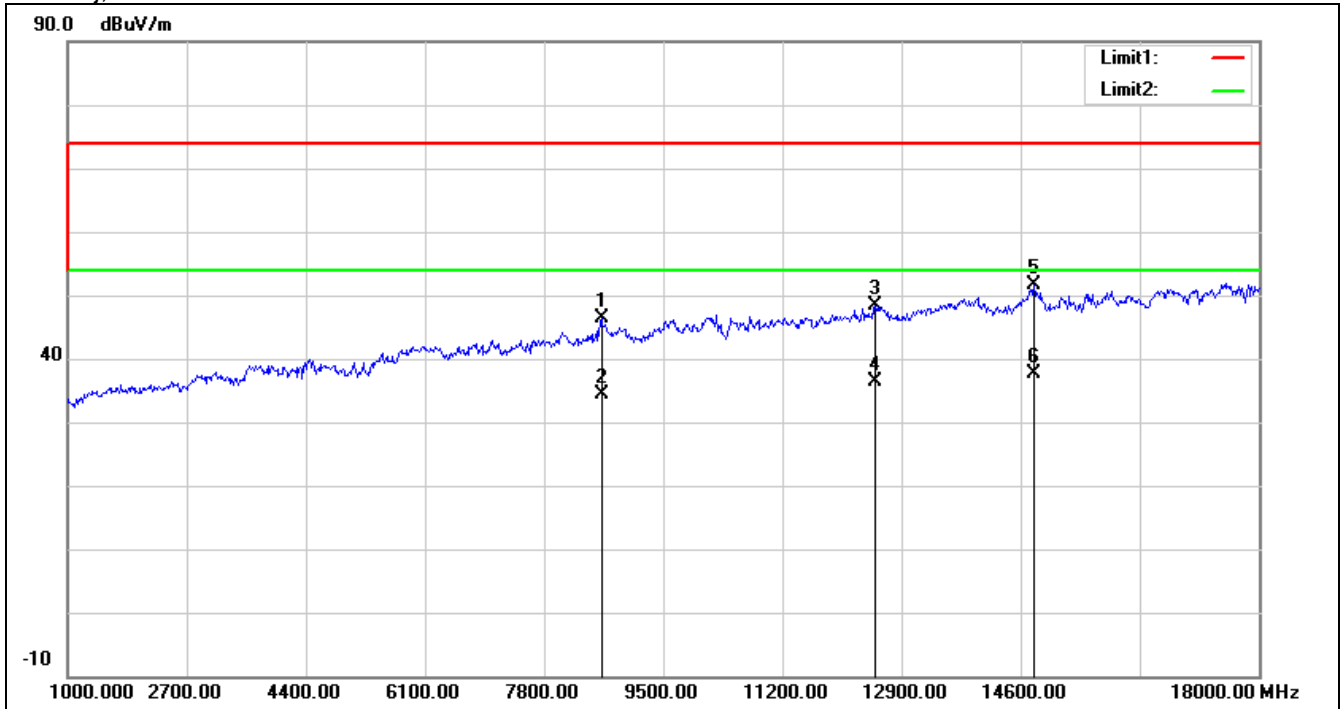
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Mode:j; Polarization:Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	8616.000	42.47	3.90	46.37	74.00	-27.63	100	87	peak
2	8616.000	30.43	3.90	34.33	54.00	-19.67	100	133	AVG
3	12526.000	39.49	8.81	48.30	74.00	-25.70	100	97	peak
4	12526.000	27.68	8.81	36.49	54.00	-17.51	100	249	AVG
5	14787.000	40.12	11.40	51.52	74.00	-22.48	100	261	peak
6	14787.000	26.16	11.40	37.56	54.00	-16.44	100	337	AVG



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7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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