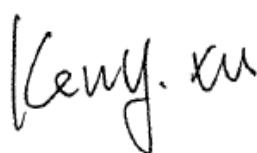


**TEST REPORT**

**Application No.:** SZCR2504001597WM  
**Applicant:** Sonim Technologies, Inc.  
**Address of Applicant:** 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA  
**Manufacturer:** Sonim Technologies, Inc.  
**Address of Manufacturer:** 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA  
**Equipment Under Test (EUT):**  
**EUT Name:** smartphone  
**Model No.:** X800  
**Type No.:** S1003/S1001/S1004/S1005/S1006/S1010  
**Trade Mark:** Sonim  
**FCC ID:** WYPS1003  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2025-04-22  
**Date of Test:** 2025-04-24 to 2025-04-27  
**Date of Issue:** 2025-05-07

<b>Test Result:</b>	Pass*
---------------------	-------

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



Keny Xu  
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing & EEC Laboratory

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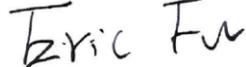
**SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch**

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250400159701

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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2025-05-07		Original

<b>Authorized for issue by:</b>			
		Calvin Weng	
		Calvin Weng/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	

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## 2 Test Summary

<b>Emission Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4:2014	15.109(g);Class B	Pass

<b>Internal Source</b>	<b>Upper Frequency</b>
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

**Remark:**

Model No.: X800

This test report (Ref. No.: SZCR250400159701) is only valid with the original test report (Ref. No.: SZCR241000381001).

According to the declaration from the applicant, the models in this report and models in original report were identical, only difference with being added an alternative battery and LCD.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for retest.

Therefore in this report Radiated Emission were fully retested on model and shown the data in this report, other tests please refer to original report SZCR241000381001.

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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC3.87V by Li-ion battery(5000mAh) Recharged by AC/DC power adapter Adapter M/N:1-CHUSQ302-097 Adapter Manufacturer: HUIZHOU PUAN ELEOTRONICS CO.,LTD Adapter output: 5V/3A,9V/2A,12V/1.5A Battery M/N:BAT-05000-21S Battery Manufacturer: Tianjin Lishen Juyuan New Energy Technology Co., Ltd.
Cable(s):	USB type C cable M/N: HX-YLMK-16 1.5m shielded cable without ferrite core USB type C cable manufacturer: HUIZHOU WASHIN ELECTRONICS CO.,LTD
Internal Source:	>108MHz

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	REF. No.SEA18C01F
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A01
Router	NETGEAR	DGN2200	REF. No.SEA22A00
Wireless charge	XIAOMI	MDY-12-EN	REF. No.SEA05Q06F
XIAOMI MI 9	XIAOMI	M1902F1A	22006/K9SH01862
Type-C to C Cable	SGS	N/A	REF. No.SEA0705

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (30MHz-1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB

#### Remark:

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{cispr/ETSI}$  (CISPR/ETSI Uncertainty), so the test results  
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None

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## 5 Equipment List

<b>Radiated Emissions (30MHz-1GHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

<b>Radiated Emissions (Above 1GHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

<b>General used equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02

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## 6 Emission Test Results

### 6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Limit:

FREQUENCY (MHz)	dB $\mu$ V/m (At 10m)	dB $\mu$ V/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C      Humidity: 44.5 % RH      Atmospheric Pressure: 1020 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	17	Normal Operating: Charge+front camera on
Final test	18	Normal Operating: Charge+rear camera on
Final test	19	Normal Operating: Charge+play MP4+earphone
Final test	20	Normal Operating: Data exchange between PC and EUT
Final test	21	Normal Operating: Charge+NR n5 Rx
Final test	22	Normal Operating: WPC charge the EUT

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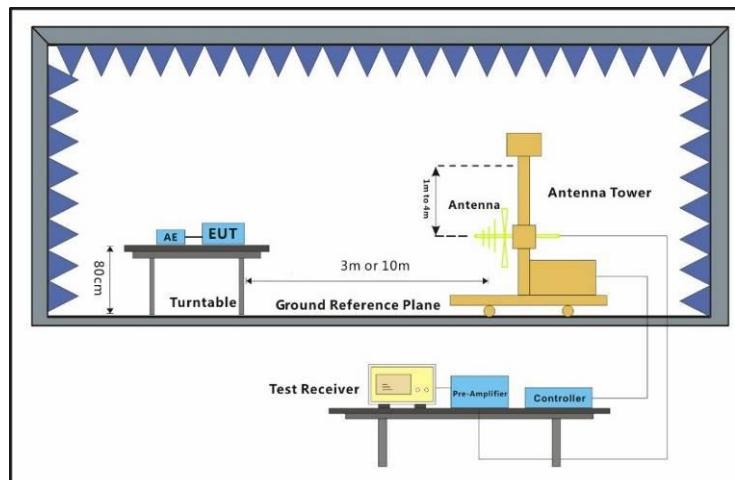
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### 6.1.3 Test Setup Diagram



### 6.1.4 Measurement Procedure and 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.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

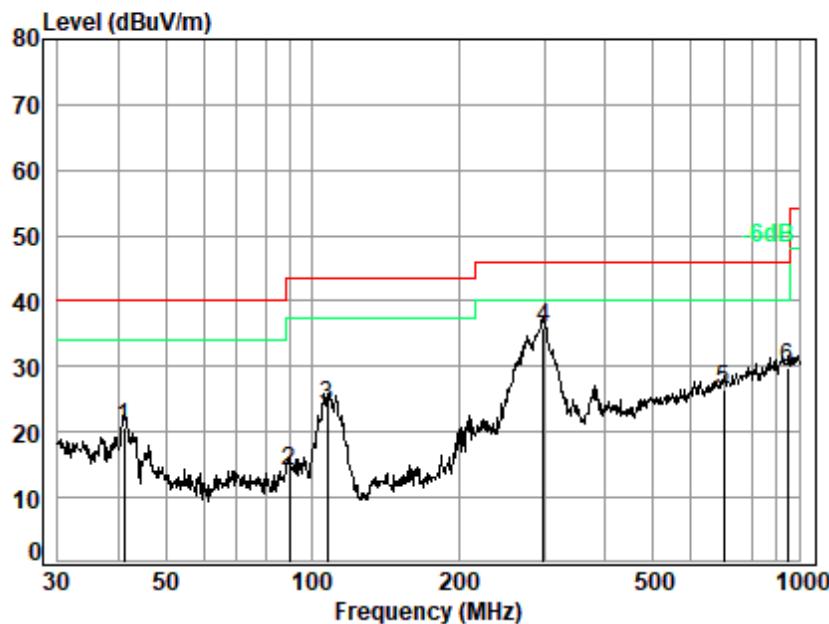
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Test Mode: 17; Polarity: Horizontal



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 01597WM  
 Test Mode: 17

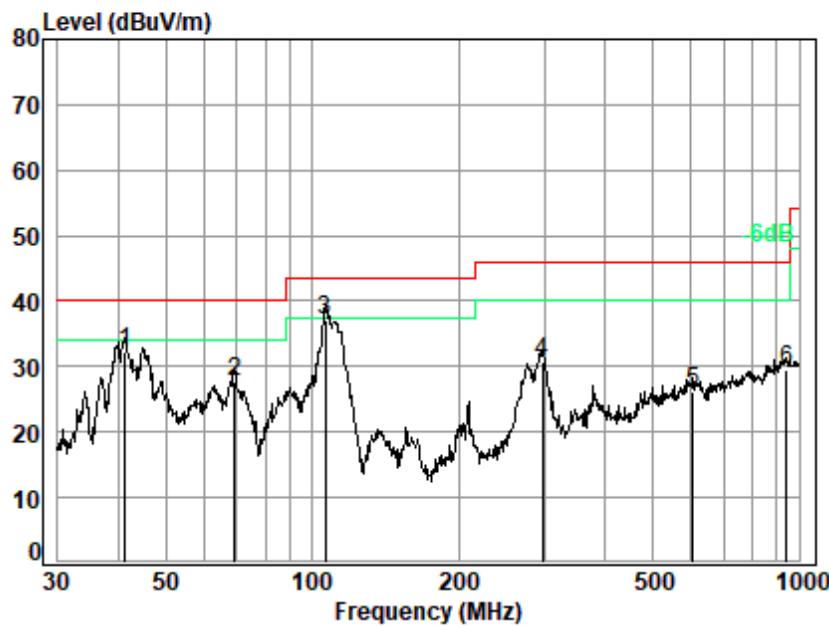
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					MHz	dB/m	dB	dBuV	dBuV/m
1	40.988	15.91	0.79	27.76	31.78	20.72	40.00	-19.28	QP
2	89.905	11.72	1.16	27.62	28.76	14.02	43.50	-29.48	QP
3	107.134	12.13	1.27	27.56	38.10	23.94	43.50	-19.56	QP
4	298.268	17.82	2.19	26.76	42.50	35.75	46.00	-10.25	QP
5	699.305	25.93	3.54	27.73	24.87	26.61	46.00	-19.39	QP
6	948.761	28.23	4.25	26.42	23.65	29.71	46.00	-16.29	QP

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Test Mode: 17; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01597WM  
Test Mode: 17

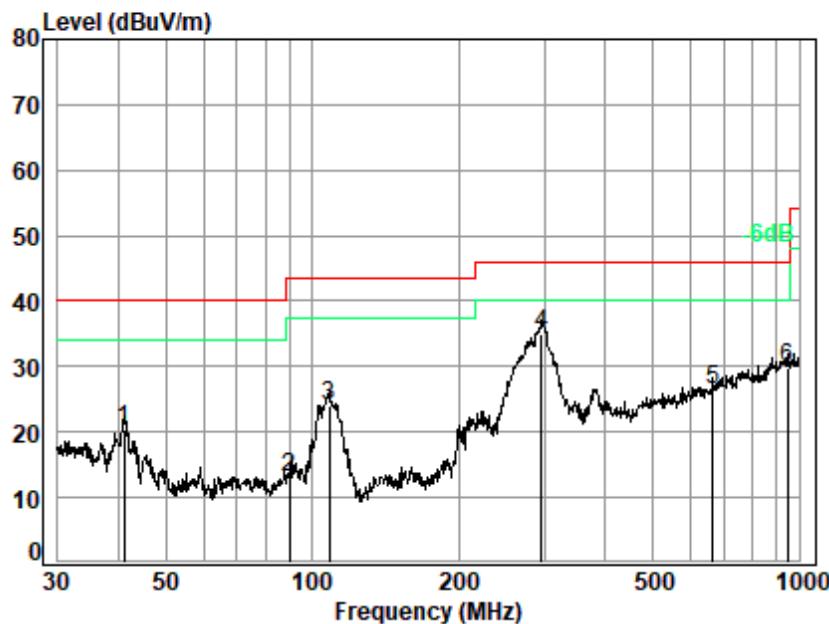
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					MHz	dB/m	dB	dBuV
1	41.277	15.76	0.79	27.76	43.59	32.38	40.00	-7.62 QP
2	69.357	10.64	1.02	27.68	43.67	27.65	40.00	-12.35 QP
3 q	106.385	12.16	1.27	27.56	51.28	37.15	43.50	-6.35 QP
4	297.224	17.69	2.19	26.76	37.49	30.61	46.00	-15.39 QP
5	605.659	24.52	3.26	27.96	26.34	26.16	46.00	-19.84 QP
6	942.131	28.19	4.23	26.46	23.40	29.36	46.00	-16.64 QP

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Test Mode: 18; Polarity: Horizontal



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 01597WM  
 Test Mode: 18

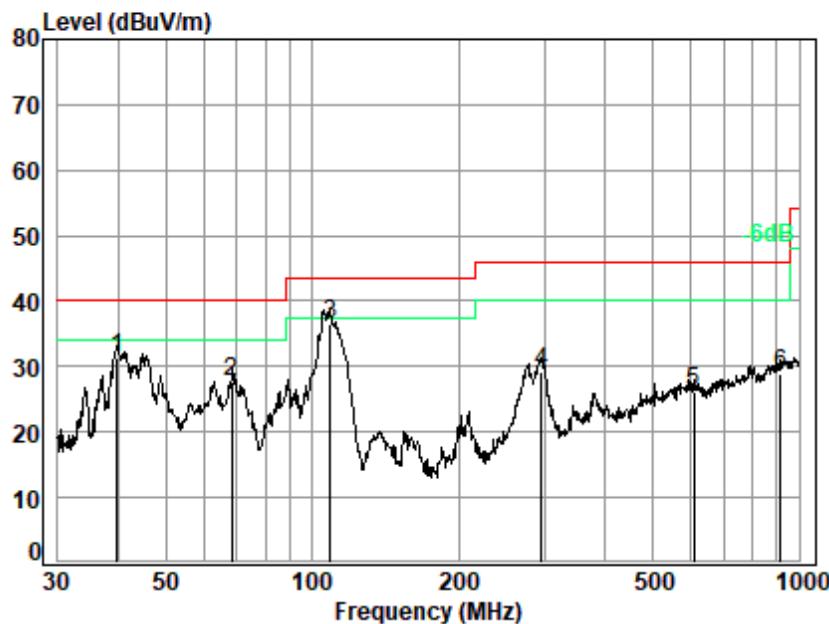
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					MHz	dB/m	dB	dBuV	dBuV/m
1	40.988	15.91	0.79	27.76	31.53	20.47	40.00	-19.53	QP
2	89.905	11.72	1.16	27.62	27.84	13.10	43.50	-30.40	QP
3	108.267	12.06	1.28	27.56	38.34	24.12	43.50	-19.38	QP
4 q	296.184	17.57	2.19	26.77	42.05	35.04	46.00	-10.96	QP
5	665.804	25.41	3.44	27.81	25.37	26.41	46.00	-19.59	QP
6	945.440	28.26	4.24	26.44	23.79	29.85	46.00	-16.15	QP

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Test Mode: 18; Polarity: Vertical



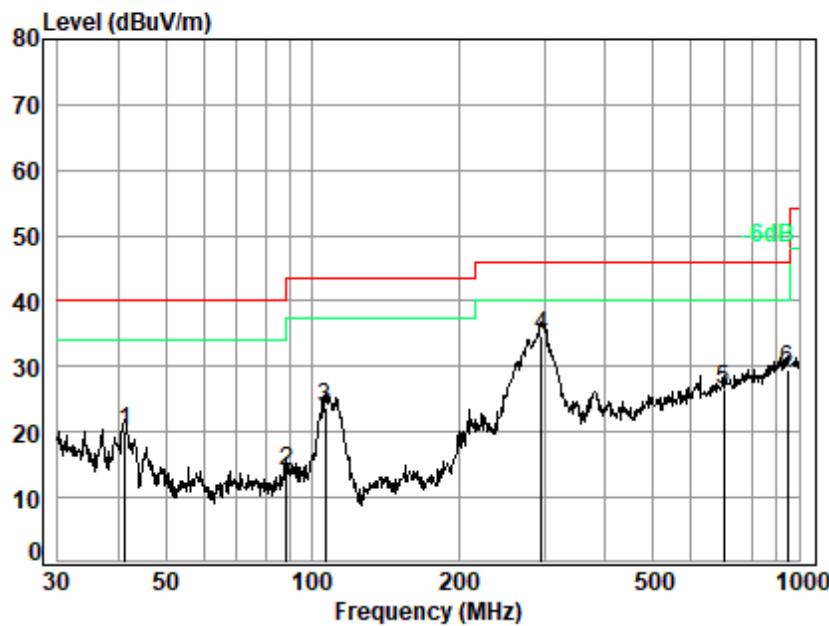
Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : 01597WM  
 Test Mode: 18

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					MHz	dB/m	dB	dBuV	dBuV/m
1	39.715	16.54	0.78	27.76	41.70	31.26	40.00	-8.74	QP
2	68.391	10.70	1.01	27.68	43.74	27.77	40.00	-12.23	QP
3 q	108.647	12.03	1.28	27.55	50.83	36.59	43.50	-6.91	QP
4	296.184	17.57	2.19	26.77	36.28	29.27	46.00	-16.73	QP
5	607.787	24.61	3.27	27.95	26.11	26.04	46.00	-19.96	QP
6	916.069	28.06	4.16	26.65	23.46	29.03	46.00	-16.97	QP

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Test Mode: 19; Polarity: Horizontal



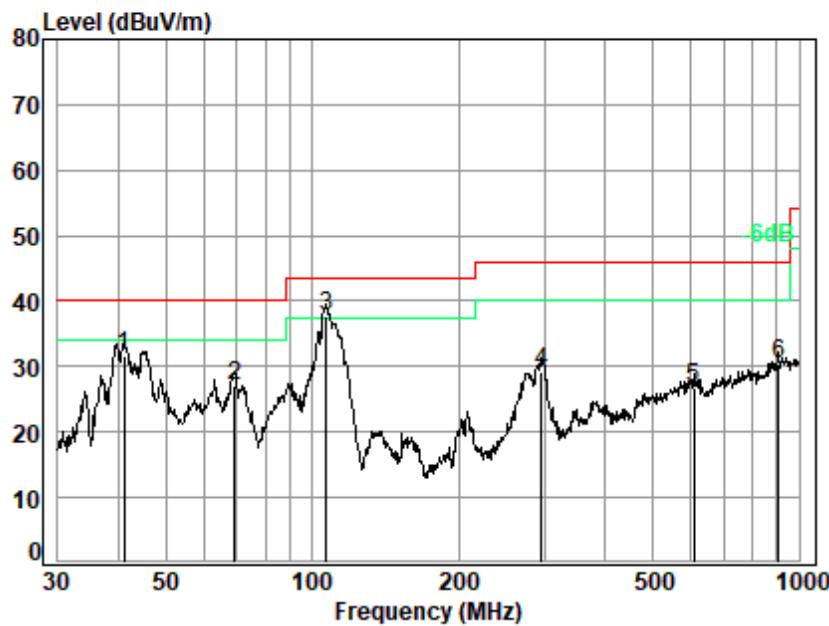
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 01597WM  
 Test Mode: 19

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					MHz	dB/m	dB	dBuV	dBuV/m
1	41.277	15.76	0.79	27.76	31.26	20.05	40.00	-19.95	QP
2	88.652	11.57	1.15	27.62	28.98	14.08	43.50	-29.42	QP
3	106.385	12.16	1.27	27.56	37.92	23.79	43.50	-19.71	QP
4 q	296.184	17.57	2.19	26.77	41.68	34.67	46.00	-11.33	QP
5	699.305	25.93	3.54	27.73	24.73	26.47	46.00	-19.53	QP
6	945.440	28.26	4.24	26.44	23.44	29.50	46.00	-16.50	QP

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Test Mode: 19; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01597WM  
Test Mode: 19

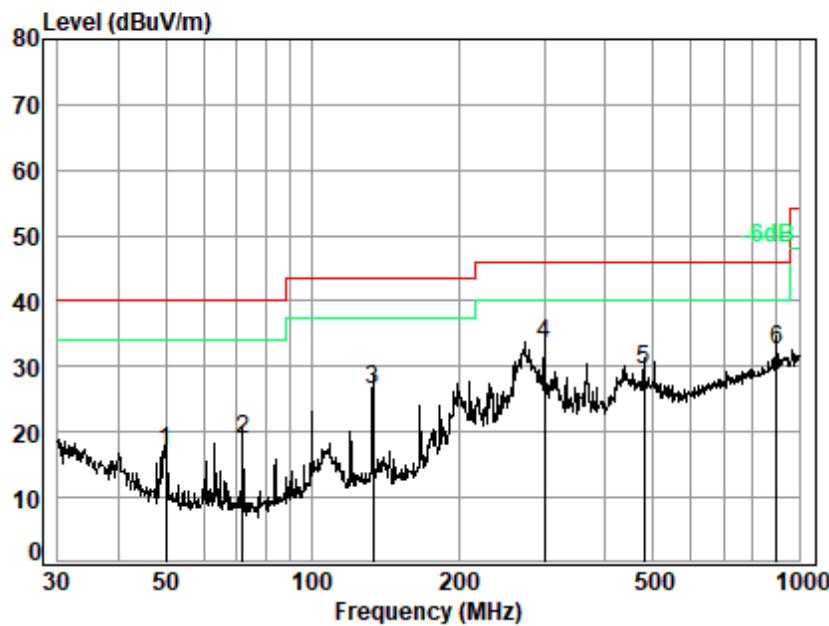
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	40.988	15.91	0.79	27.76	42.84	31.78	40.00	-8.22 QP
2	69.357	10.64	1.02	27.68	43.10	27.08	40.00	-12.92 QP
3 q	106.759	12.15	1.27	27.56	51.83	37.69	43.50	-5.81 QP
4	296.184	17.57	2.19	26.77	36.35	29.34	46.00	-16.66 QP
5	607.787	24.61	3.27	27.95	26.90	26.83	46.00	-19.17 QP
6	906.482	27.87	4.14	26.72	25.03	30.32	46.00	-15.68 QP

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Test Mode: 20; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01597WM  
Test Mode: 20

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					MHz	dB/m	dB	dB
1	50.057	12.75	0.86	27.73	31.15	17.03	40.00	-22.97 QP
2	72.084	10.48	1.04	27.67	34.90	18.75	40.00	-21.25 QP
3	133.151	11.21	1.44	27.45	41.33	26.53	43.50	-16.97 QP
4	299.316	17.94	2.20	26.75	39.93	33.32	46.00	-12.68 QP
5	480.528	22.75	2.86	27.48	31.25	29.38	46.00	-16.62 QP
6	900.147	27.82	4.12	26.76	27.49	32.67	46.00	-13.33 QP

SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch (SGS-CSTC) Laboratory.

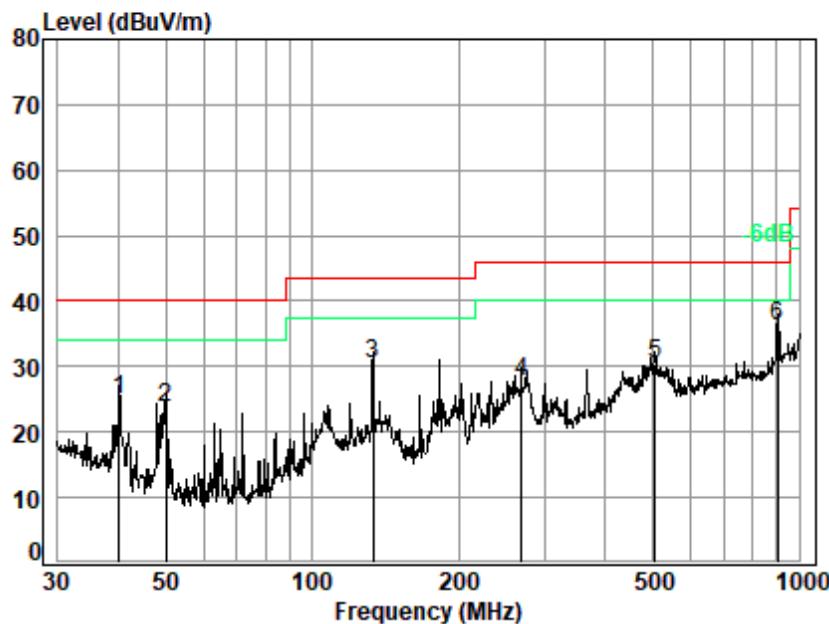
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Test Mode: 20; Polarity: Vertical



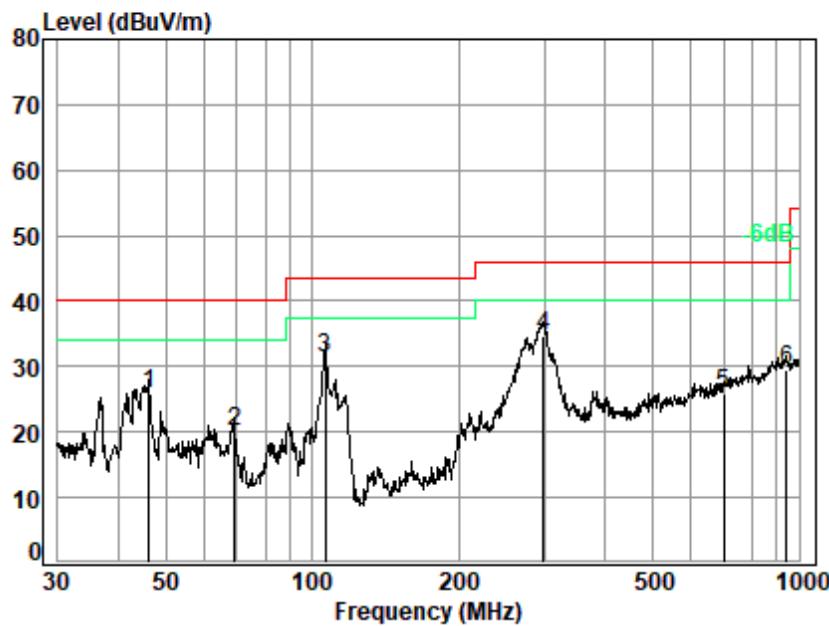
Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01597WM  
Test Mode: 20

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dB	dBuV		
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	40.135	16.35	0.78	27.76	35.64	25.01	40.00	-14.99 QP
2	50.057	12.75	0.86	27.73	37.91	23.79	40.00	-16.21 QP
3	133.151	11.21	1.44	27.45	45.17	30.37	43.50	-13.13 QP
4	268.485	17.09	2.08	26.88	35.53	27.82	46.00	-18.18 QP
5	506.479	23.09	2.94	27.59	31.85	30.29	46.00	-15.71 QP
6 q	903.309	27.83	4.13	26.74	30.93	36.15	46.00	-9.85 QP

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Test Mode: 21; Polarity: Horizontal

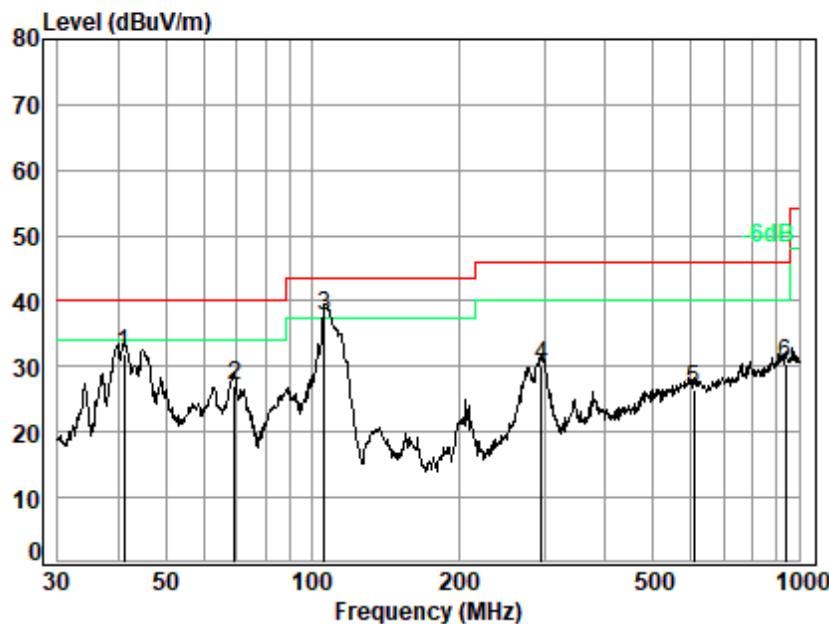


Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01597WM  
Test Mode: 21

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark		
					MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	46.178	13.89	0.83	27.75	38.94	25.91	40.00	40.00	-14.09	QP
2	69.114	10.65	1.01	27.68	36.13	20.11	40.00	40.00	-19.89	QP
3	106.385	12.16	1.27	27.56	45.55	31.42	43.50	43.50	-12.08	QP
4 q	298.268	17.82	2.19	26.76	41.48	34.73	46.00	46.00	-11.27	QP
5	699.305	25.93	3.54	27.73	23.98	25.72	46.00	46.00	-20.28	QP
6	942.131	28.19	4.23	26.46	23.57	29.53	46.00	46.00	-16.47	QP



Test Mode: 21; Polarity: Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : 01597WM  
 Test Mode: 21

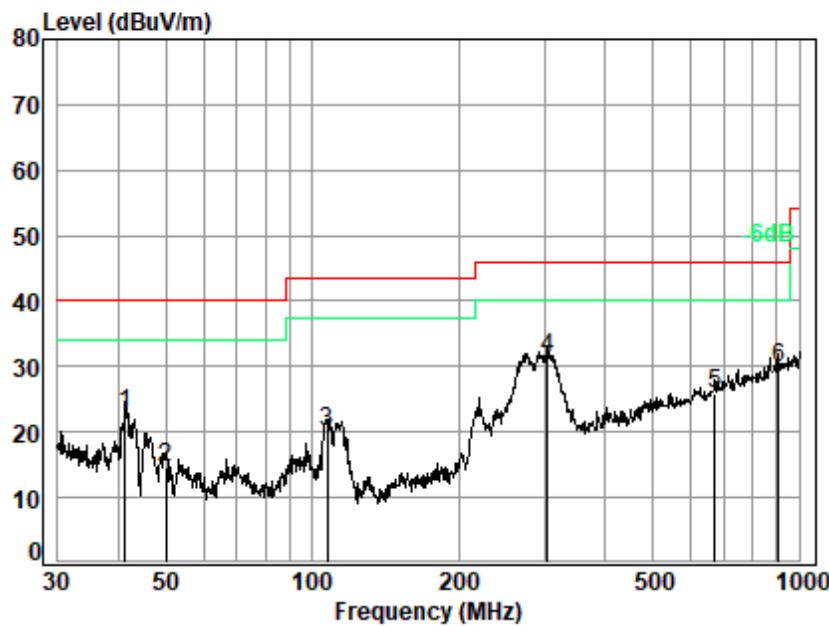
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					MHz	dB/m	dB	dBuV	dBuV/m
1	40.988	15.91	0.79	27.76	42.86	31.80	40.00	-8.20	QP
2	69.114	10.65	1.01	27.68	43.20	27.18	40.00	-12.82	QP
3 q	106.013	12.18	1.27	27.56	51.71	37.60	43.50	-5.90	QP
4	296.184	17.57	2.19	26.77	36.99	29.98	46.00	-16.02	QP
5	607.787	24.61	3.27	27.95	26.51	26.44	46.00	-19.56	QP
6	938.833	28.15	4.22	26.49	24.47	30.35	46.00	-15.65	QP

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Test Mode: 22; Polarity: Horizontal



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 01597WM  
 Test Mode: 22

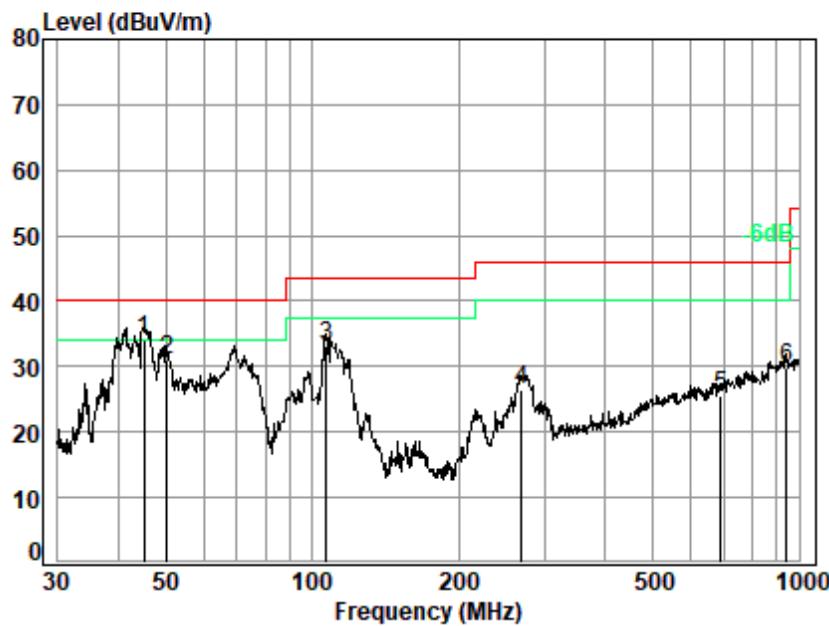
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					MHz	dB/m	dB	dB
							dBuV	dBuV/m
1	41.277	15.76	0.79	27.76	33.93	22.72	40.00	-17.28 QP
2	50.057	12.75	0.86	27.73	28.86	14.74	40.00	-25.26 QP
3	107.510	12.11	1.28	27.56	34.17	20.00	43.50	-23.50 QP
4 q	304.610	18.39	2.22	26.77	37.34	31.18	46.00	-14.82 QP
5	670.489	25.57	3.46	27.80	24.74	25.97	46.00	-20.03 QP
6	906.482	27.87	4.14	26.72	24.66	29.95	46.00	-16.05 QP

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Test Mode: 22; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01597WM  
Test Mode: 22

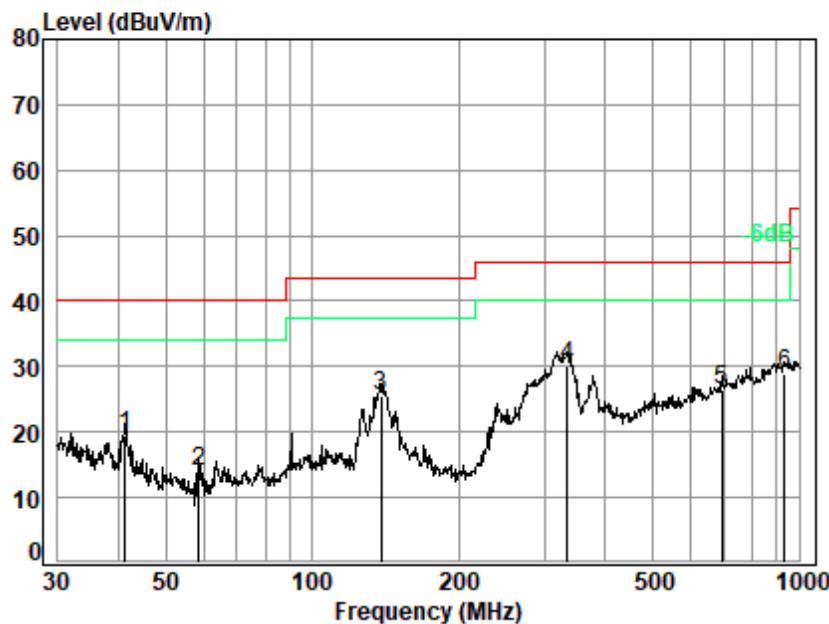
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dB/m	dBuV	dBuV/m	dBuV/m
MHz	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 q	45.058	14.20	0.82	27.75	46.89	34.16	40.00	-5.84 QP
2	50.232	12.72	0.86	27.73	45.30	31.15	40.00	-8.85 QP
3	106.759	12.15	1.27	27.56	47.18	33.04	43.50	-10.46 QP
4	269.428	17.10	2.08	26.88	34.26	26.56	46.00	-19.44 QP
5	689.565	25.69	3.51	27.75	23.99	25.44	46.00	-20.56 QP
6	942.131	28.19	4.23	26.46	23.88	29.84	46.00	-16.16 QP

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Test Mode: 17; Polarity: Horizontal



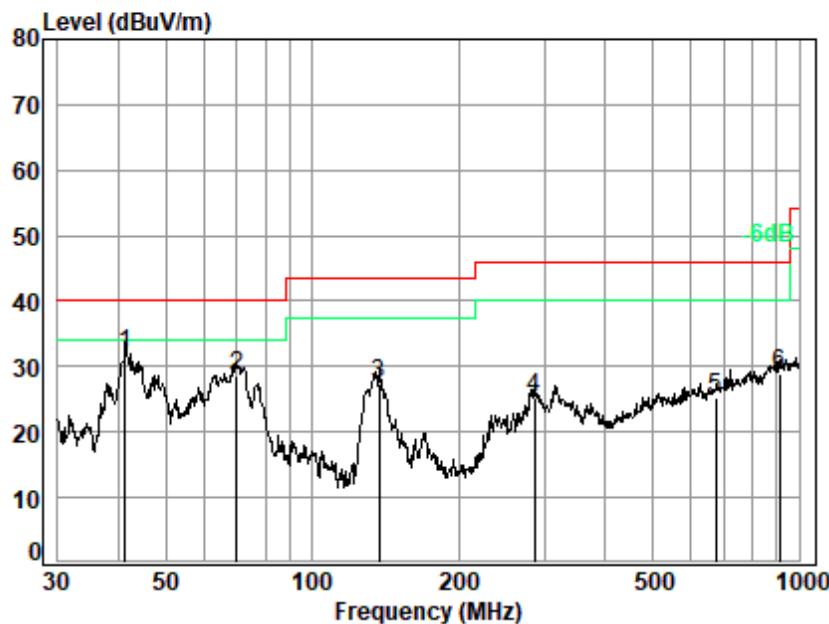
Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01597WM  
Test Mode: 17  
: 1#LCD

Freq	Ant Factor	Cable Loss	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	41.277	15.76	0.79	27.76	30.57	19.36	40.00	-20.64 QP
2	58.407	11.65	0.94	27.71	29.09	13.97	40.00	-26.03 QP
3	138.387	11.66	1.47	27.43	39.74	25.44	43.50	-18.06 QP
4 q	333.687	18.80	2.34	26.89	35.99	30.24	46.00	-15.76 QP
5	694.417	25.82	3.52	27.74	24.89	26.49	46.00	-19.51 QP
6	932.272	28.16	4.21	26.53	22.99	28.83	46.00	-17.17 QP

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Test Mode: 17; Polarity: Vertical



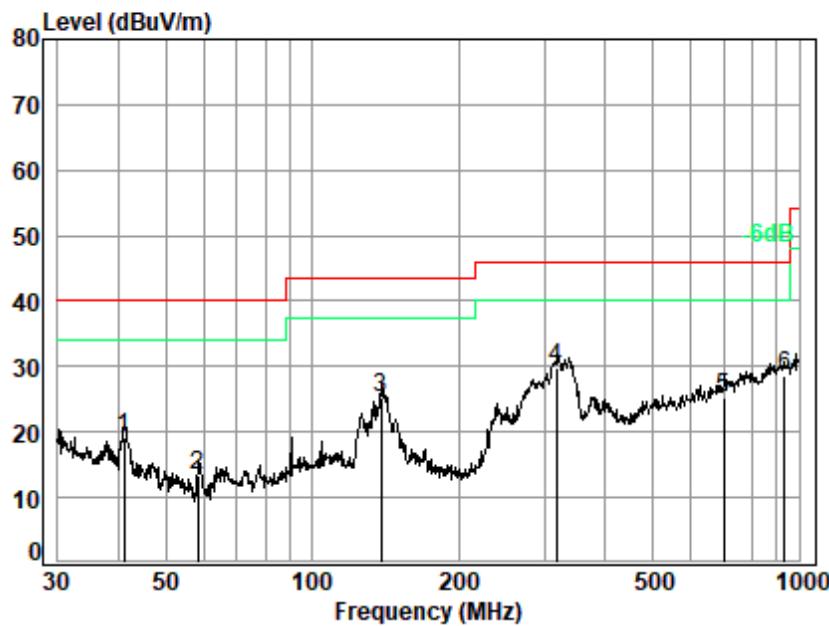
Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01597WM  
Test Mode: 17  
: 1#LCD

Freq	Ant Factor	Cable Loss	Preamp Factor	Read	Limit	Over	Remark
				Level	Level	Line	
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	41.277	15.76	0.79	27.76	43.04	31.83	40.00 -8.17 QP
2	70.090	10.61	1.02	27.68	44.62	28.57	40.00 -11.43 QP
3	136.939	11.56	1.46	27.43	41.84	27.43	43.50 -16.07 QP
4	285.978	16.93	2.15	26.81	33.01	25.28	46.00 -20.72 QP
5	675.208	25.71	3.47	27.79	23.99	25.38	46.00 -20.62 QP
6	909.667	27.97	4.15	26.70	23.54	28.96	46.00 -17.04 QP

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Test Mode: 18; Polarity: Horizontal



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 01597WM  
 Test Mode: 18  
 : 1#LCD

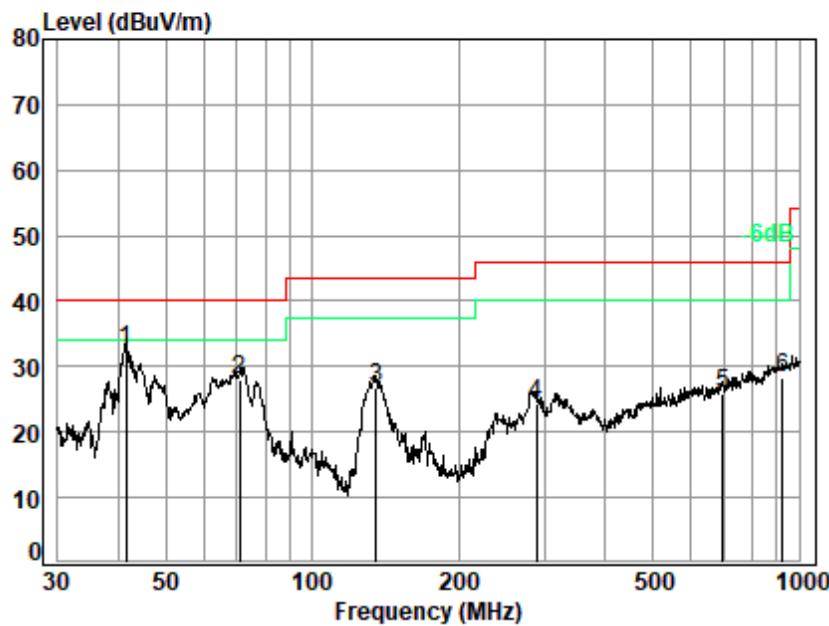
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz	dB/m		dB	dBuV	dBuV/m	dB	
1	40.988	15.91	0.79	27.76	30.17	19.11	40.00	-20.89 QP
2	58.203	11.67	0.93	27.71	28.54	13.43	40.00	-26.57 QP
3	138.387	11.66	1.47	27.43	39.63	25.33	43.50	-18.17 QP
4	317.701	18.46	2.28	26.82	35.90	29.82	46.00	-16.18 QP
5	699.305	25.93	3.54	27.73	23.66	25.40	46.00	-20.60 QP
6	935.546	28.18	4.22	26.51	22.79	28.68	46.00	-17.32 QP

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Test Mode: 18; Polarity: Vertical



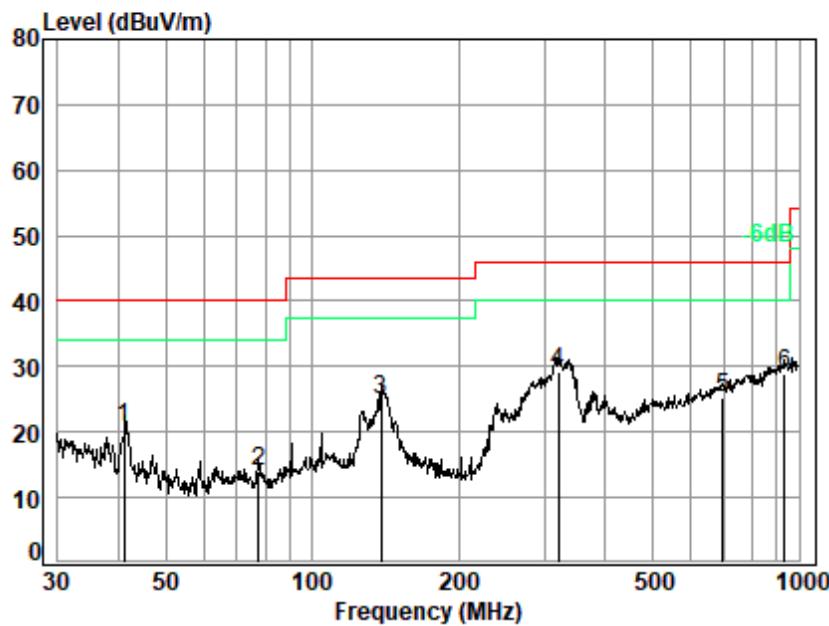
Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01597WM  
Test Mode: 18  
: 1#LCD

Freq	Ant Factor	Ant	Cable	Preamp	Read	Limit	Over	Remark
		MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m
1 q	41.422	15.69	0.79	27.76	43.78	32.50	40.00	-7.50 QP
2	71.080	10.55	1.03	27.67	44.02	27.93	40.00	-12.07 QP
3	135.506	11.44	1.46	27.44	41.24	26.70	43.50	-16.80 QP
4	289.002	17.01	2.16	26.80	31.85	24.22	46.00	-21.78 QP
5	696.857	25.88	3.53	27.73	24.13	25.81	46.00	-20.19 QP
6	925.756	28.18	4.19	26.58	22.61	28.40	46.00	-17.60 QP

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Test Mode: 19; Polarity: Horizontal



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 01597WM  
 Test Mode: 19  
     : 1#LCD

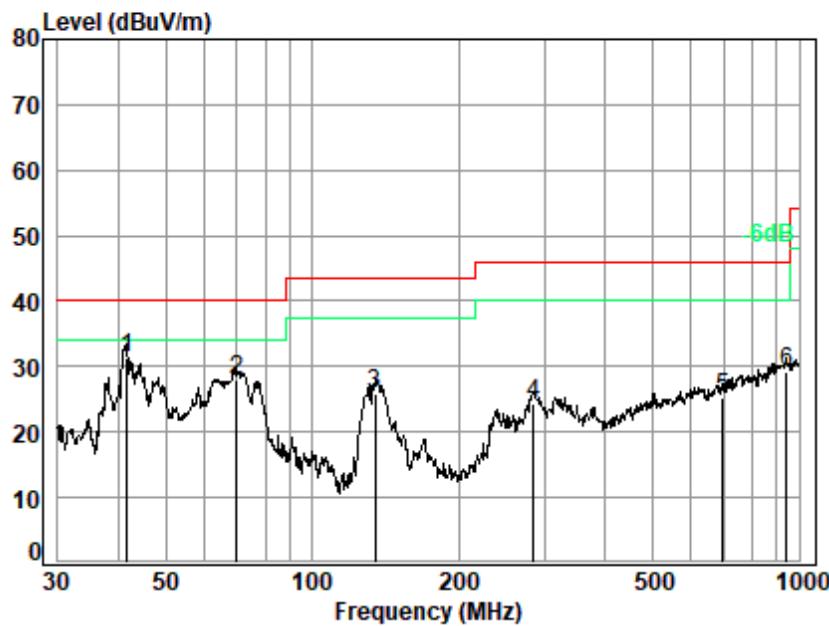
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz	dB/m		dB	dBuV	dBuV/m	dB	
1	41.132	15.83	0.79	27.76	31.73	20.59	40.00	-19.41 QP
2	77.593	10.39	1.07	27.65	30.08	13.89	40.00	-26.11 QP
3	138.387	11.66	1.47	27.43	39.31	25.01	43.50	-18.49 QP
4 q	319.937	18.51	2.28	26.83	35.29	29.25	46.00	-16.75 QP
5	696.857	25.88	3.53	27.73	23.64	25.32	46.00	-20.68 QP
6	935.546	28.18	4.22	26.51	23.01	28.90	46.00	-17.10 QP

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Test Mode: 19; Polarity: Vertical



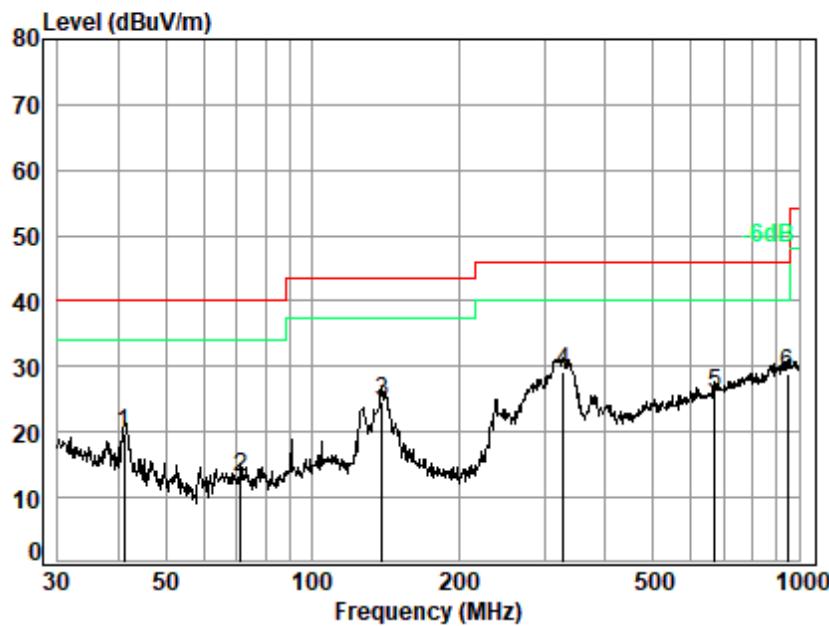
Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : 01597WM  
 Test Mode: 19  
 : 1#LCD

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark	
				MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m
1 q	41.713	15.55	0.80	27.76	42.74	31.33	40.00	-8.67	QP
2	70.090	10.61	1.02	27.68	43.91	27.86	40.00	-12.14	QP
3	134.559	11.35	1.45	27.44	40.63	25.99	43.50	-17.51	QP
4	284.977	16.90	2.14	26.81	32.04	24.27	46.00	-21.73	QP
5	696.857	25.88	3.53	27.73	23.62	25.30	46.00	-20.70	QP
6	942.131	28.19	4.23	26.46	23.33	29.29	46.00	-16.71	QP

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Test Mode: 20; Polarity: Horizontal



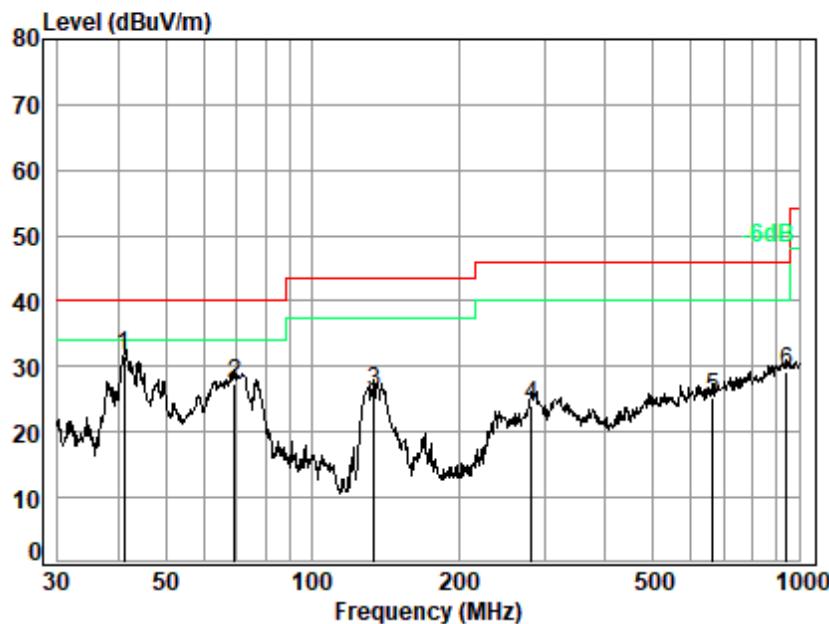
Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01597WM  
Test Mode: 20  
: 1#LCD

Freq	Ant Factor	Cable Loss	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB/m	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	41.132	15.83	0.79	27.76	30.81	19.67	40.00	-20.33 QP
2	71.330	10.54	1.03	27.67	29.18	13.08	40.00	-26.92 QP
3	139.361	11.75	1.48	27.42	38.84	24.65	43.50	-18.85 QP
4 q	327.887	18.66	2.32	26.86	35.13	29.25	46.00	-16.75 QP
5	670.489	25.57	3.46	27.80	24.50	25.73	46.00	-20.27 QP
6	948.761	28.23	4.25	26.42	22.98	29.04	46.00	-16.96 QP

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Test Mode: 20; Polarity: Vertical



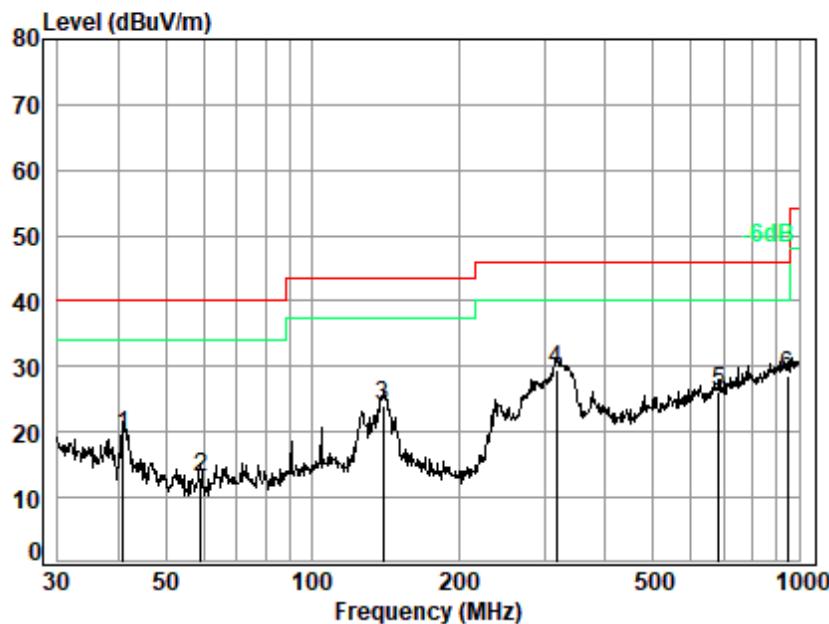
Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01597WM  
Test Mode: 20  
: 1#LCD

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	41.132	15.83	0.79	27.76	42.90	31.76	40.00	-8.24 QP
2	69.357	10.64	1.02	27.68	43.54	27.52	40.00	-12.48 QP
3	134.088	11.30	1.45	27.45	40.82	26.12	43.50	-17.38 QP
4	281.995	16.91	2.13	26.83	31.89	24.10	46.00	-21.90 QP
5	663.473	25.32	3.44	27.81	24.44	25.39	46.00	-20.61 QP
6	942.131	28.19	4.23	26.46	23.18	29.14	46.00	-16.86 QP

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Test Mode: 21; Polarity: Horizontal



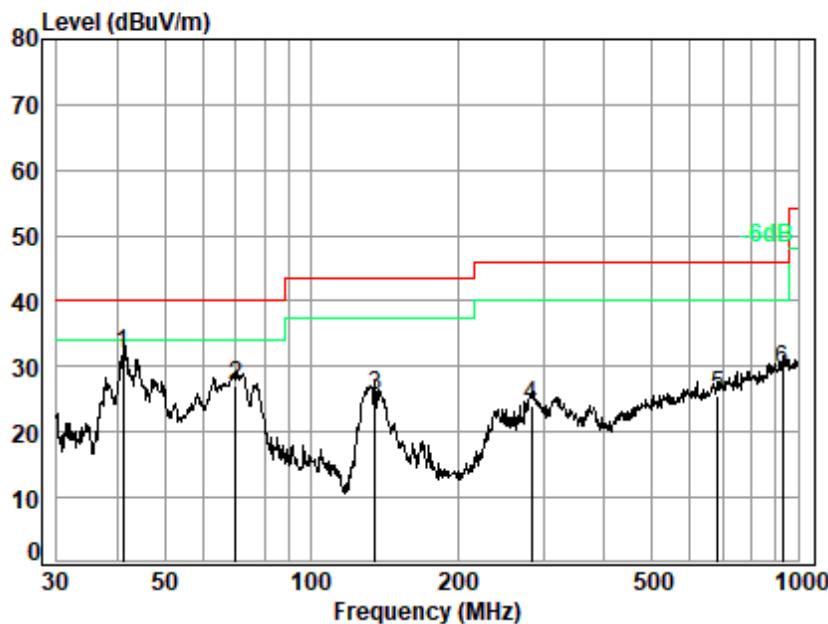
Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 01597WM  
Test Mode: 21  
: 1#LCD

Freq	Ant Factor	Cable Loss	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB/m	dB	dB	dB	dB	dB	
1	40.845	15.98	0.79	27.76	30.57	19.58	40.00 -20.42 QP
2	59.025	11.59	0.94	27.71	28.30	13.12	40.00 -26.88 QP
3	139.851	11.80	1.48	27.42	38.22	24.08	43.50 -19.42 QP
4 q	317.701	18.46	2.28	26.82	35.44	29.36	46.00 -16.64 QP
5	684.745	25.75	3.50	27.76	24.57	26.06	46.00 -19.94 QP
6	945.440	28.26	4.24	26.44	22.61	28.67	46.00 -17.33 QP

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Test Mode: 21; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01597WM  
Test Mode: 21  
: 1#LCD

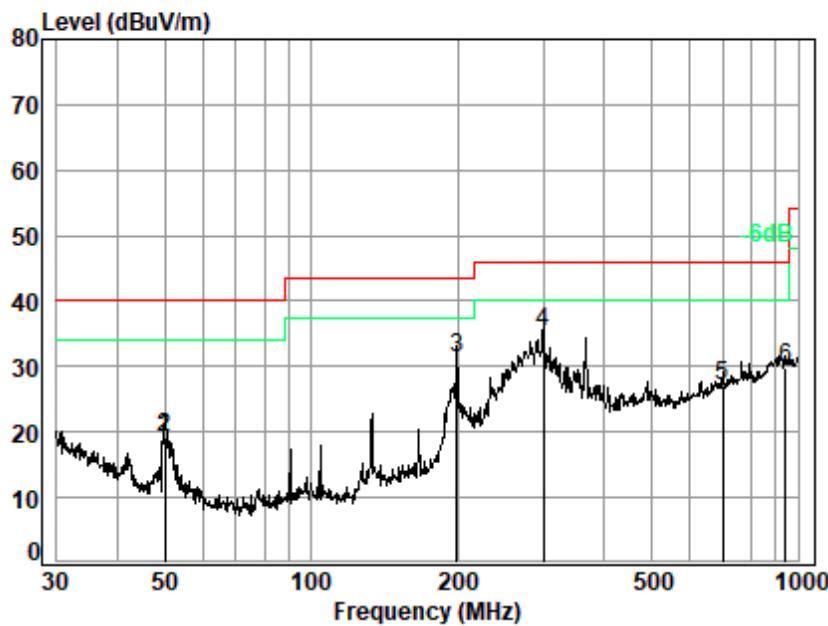
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	41.132	15.83	0.79	27.76	43.06	31.92	40.00	-8.08 QP
2	69.845	10.62	1.02	27.68	43.15	27.11	40.00	-12.89 QP
3	135.032	11.39	1.45	27.44	40.16	25.56	43.50	-17.94 QP
4	283.979	16.90	2.14	26.82	31.92	24.14	46.00	-21.86 QP
5	684.745	25.75	3.50	27.76	24.21	25.70	46.00	-20.30 QP
6	929.008	28.16	4.20	26.56	23.76	29.56	46.00	-16.44 QP

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Test Mode: 22; Polarity: Horizontal



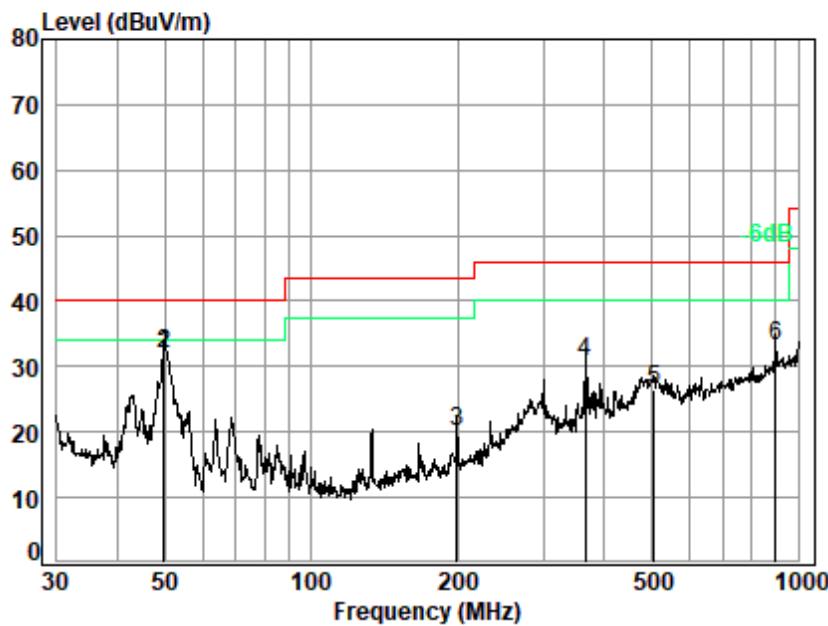
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 01597WM  
 Test Mode: 22  
     : 1#LCD

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
	MHz	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	50.057	12.75	0.86	27.73	33.36	19.24	40.00	-20.76 QP
2	50.057	12.75	0.86	27.73	33.36	19.24	40.00	-20.76 QP
3	199.286	14.08	1.76	27.17	42.63	31.30	43.50	-12.20 QP
4 q	299.316	17.94	2.20	26.75	41.91	35.30	46.00	-10.70 QP
5	699.305	25.93	3.54	27.73	25.36	27.10	46.00	-18.90 QP
6	942.131	28.19	4.23	26.46	23.79	29.75	46.00	-16.25 QP

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Test Mode: 22; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 01597WM  
Test Mode: 22  
: 1#LCD

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	49.881	12.79	0.86	27.73	46.05	31.97	40.00	-8.03 QP
2	49.881	12.79	0.86	27.73	46.05	31.97	40.00	-8.03 QP
3	199.286	14.08	1.76	27.17	31.48	20.15	43.50	-23.35 QP
4	365.539	20.31	2.46	27.02	35.10	30.85	46.00	-15.15 QP
5	506.479	23.09	2.94	27.59	28.11	26.55	46.00	-19.45 QP
6	900.147	27.82	4.12	26.76	27.84	33.02	46.00	-12.98 QP

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## 6.2 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Above 1GHz 74(dB $\mu$ V/m) peak, 54(dB $\mu$ V/m) average at 3m distance

83.54(dB $\mu$ V/m) peak, 63.54(dB $\mu$ V/m) average at 1m distance

Detector: Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

### 6.2.1 E.U.T. Operation

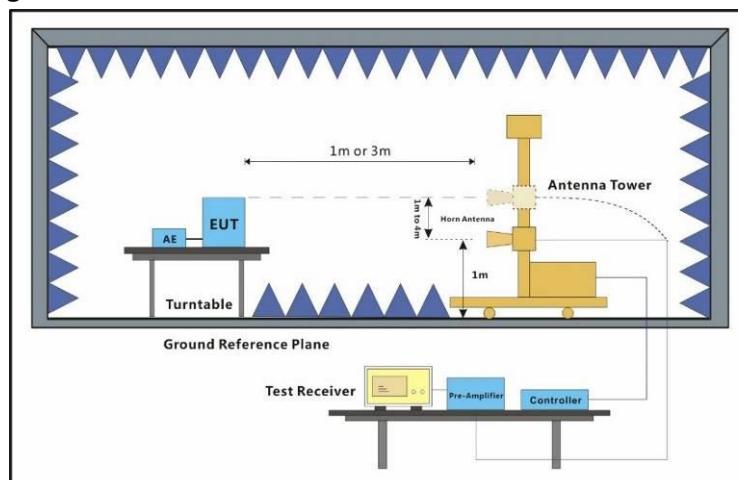
Operating Environment:

Temperature: 21.2 °C Humidity: 44.3 % RH Atmospheric Pressure: 1020 mbar

### 6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	17	Normal Operating: Charge+front camera on
Pre-scan	18	Normal Operating: Charge+rear camera on
Final test	19	Normal Operating: Charge+play MP4+earphone
Final test	20	Normal Operating: Data exchange between PC and EUT
Pre-scan	21	Normal Operating: Charge+NR n5 Rx
Pre-scan	22	Normal Operating: WPC charge the EUT

### 6.2.3 Test Setup Diagram



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**6.2.4 Measurement Procedure and 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.

The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



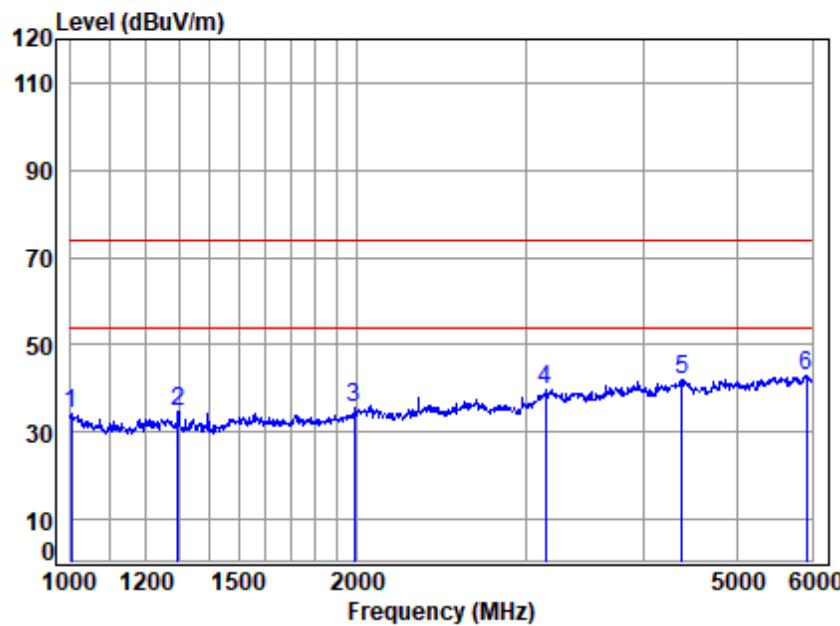
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch (SGS-CSTC) Laboratory

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Test Mode: 19; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 01597WM/01599WM  
Mode : 19

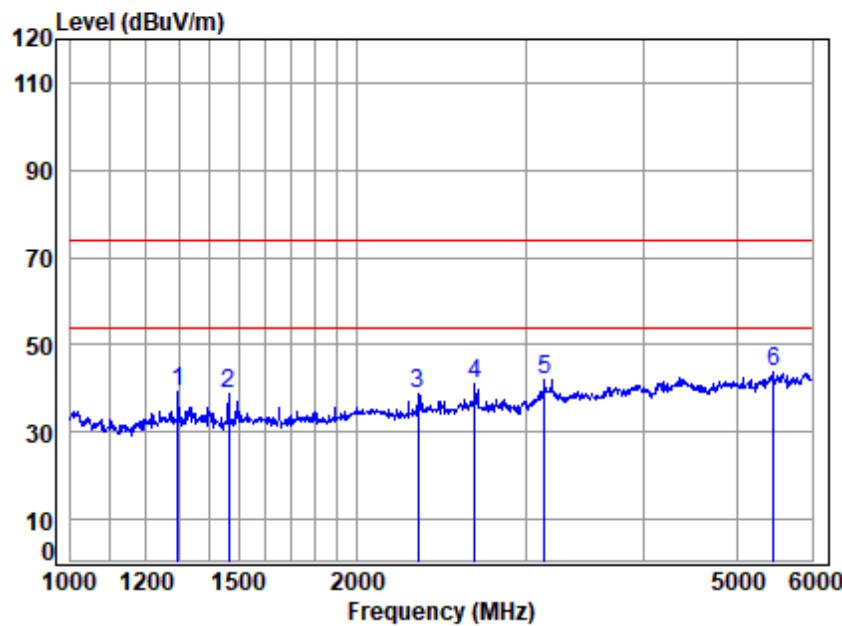
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1001.793	5.95	26.24	54.60	56.69	34.28	74.00 -39.72 Peak
2	1294.356	5.28	24.83	54.71	59.31	34.71	74.00 -39.29 Peak
3	1982.685	5.05	28.49	54.90	56.89	35.53	74.00 -38.47 Peak
4	3147.870	6.05	32.46	54.88	56.11	39.74	74.00 -34.26 Peak
5	4385.052	7.06	34.68	54.26	54.68	42.16	74.00 -31.84 Peak
6 p	5914.609	8.69	34.63	53.19	52.87	43.00	74.00 -31.00 Peak

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Test Mode: 19; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01597WM/01599WM  
Mode : 19

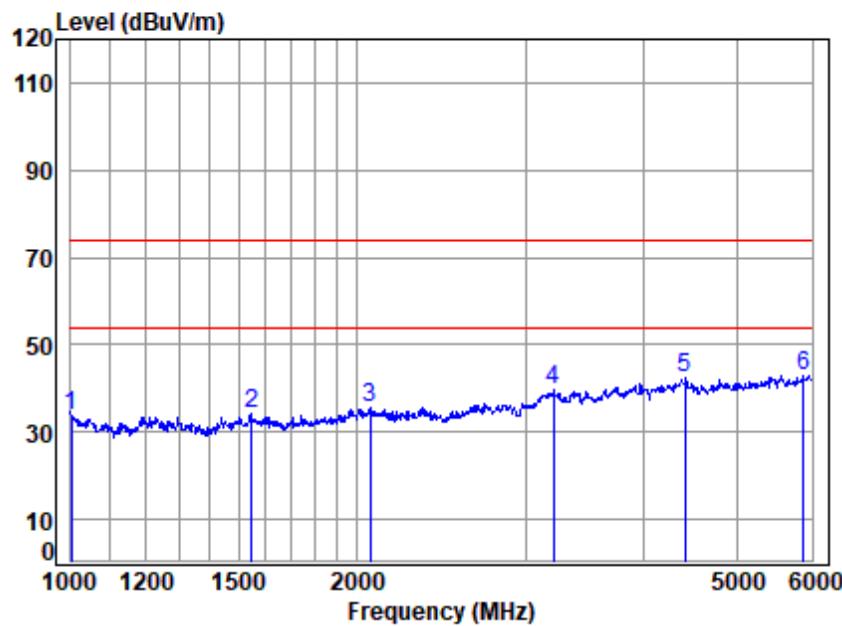
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1296.677	5.27	24.82	54.71	63.89	39.27	74.00	-34.73	Peak
2	1464.692	4.95	25.81	54.77	62.68	38.67	74.00	-35.33	Peak
3	2312.996	5.31	28.58	54.94	59.91	38.86	74.00	-35.14	Peak
4	2655.171	5.62	30.15	54.97	60.07	40.87	74.00	-33.13	Peak
5	3142.235	6.05	32.36	54.89	58.54	42.06	74.00	-31.94	Peak
6 p	5466.224	8.26	34.64	53.66	54.43	43.67	74.00	-30.33	Peak

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Test Mode: 20; Polarity: Horizontal



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01597WM/01599WM  
 Mode : 20

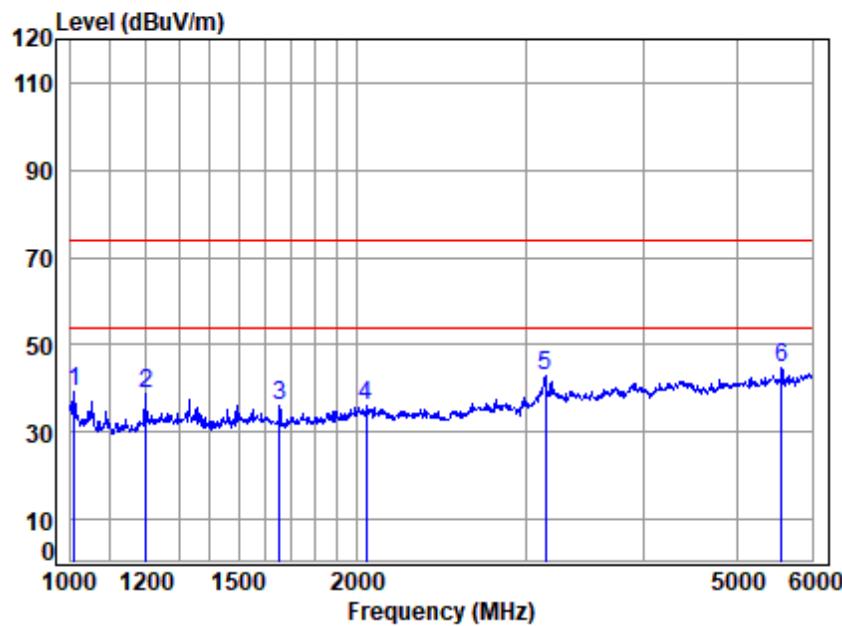
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	MHz	Loss	Factor	Factor	Level	Level		
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1001.793	5.95	26.24	54.60	56.39	33.98	74.00	-40.02 Peak
2	1548.349	4.91	26.99	54.79	57.10	34.21	74.00	-39.79 Peak
3	2062.401	5.11	28.95	54.91	56.43	35.58	74.00	-38.42 Peak
4	3210.528	6.10	32.73	54.83	55.48	39.48	74.00	-34.52 Peak
5	4416.593	7.08	34.60	54.26	54.94	42.36	74.00	-31.64 Peak
6 p	5882.902	8.66	34.53	53.22	53.03	43.00	74.00	-31.00 Peak

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Test Mode: 20; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 01597WM/01599WM  
Mode : 20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1008.999	5.93	26.01	54.60	61.70	39.04	74.00	-34.96	Peak
2	1198.376	5.48	24.38	54.68	63.48	38.66	74.00	-35.34	Peak
3	1657.443	4.95	26.29	54.82	59.75	36.17	74.00	-37.83	Peak
4	2040.348	5.09	28.96	54.90	57.00	36.15	74.00	-37.85	Peak
5	3147.870	6.05	32.46	54.88	59.27	42.90	74.00	-31.10	Peak
6 p	5575.028	8.37	34.70	53.54	55.23	44.76	74.00	-29.24	Peak

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## 7 Test Setup Photo

Please refer to Appendix\_FCC15B Test Setup Photos for SZCR2504001597WM.

## 8 EUT Constructional Details (EUT Photos)

Please refer to Appendix\_External Photo & Internal Photo for SZCR2504001597WM.

- End of the Report -



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