



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: AKUVOX (XIAMEN) NETWORKS CO., LTD.

Address: 10/F, No.56, Software Park II , Xiamen, China

FCC ID: 2AHCR-E18CV1

Product Name: Door Phone

Model Number: E18C

**Standard(s): 47 CFR Part 15, Subpart C
ANSI C63.10-2013**

The above equipment has been tested and found compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR22030053-00E

Date Of Issue: 2022-05-30

Reviewed By: Sun Zhong

Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)
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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Door Phone
EUT Model:	E18C
Rated Input Voltage:	DC 12V from Adapter or DC 48V from POE
Serial Number:	CR22030053-RF-S1
EUT Received Date:	2022.4.20
EUT Received Status:	Good

The adapter power mode was reported for Radiation test, since adapter and POE power mode were proved to be compliance with 15.209 emission requirements in BT report CR22030053-00A, and the worst is adapter power mode.

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	0.125	/	/

Antenna Information Detail▲:

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range	§15.203 Requirement
AKUVOX (XIAMEN) NETWORKS CO., LTD.	Coil	50	Unknown	Compliance

The Method of §15.203 Compliance:

Antenna must be permanently attached to the unit.
 Antenna must use a unique type of connector to attach to the EUT.
 Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

No Accessory.

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	No
Engineering Mode was provided by manufacturer ▲. The maximum power was configured default setting.	

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Huntkey	Adapter	HKA01105021-XE	0D1805002143
TP-link	Adapter(POE)	TL-SF1005P	1167604001685
DELL	Laptop	E6410	GMLGPM1
TOTOLINK	Wireless Router	LR1200	LR1200155P00167
AKUVOX	Card Reader	N5632	MN52P0024
Unknown	Load	Unknown	Load1

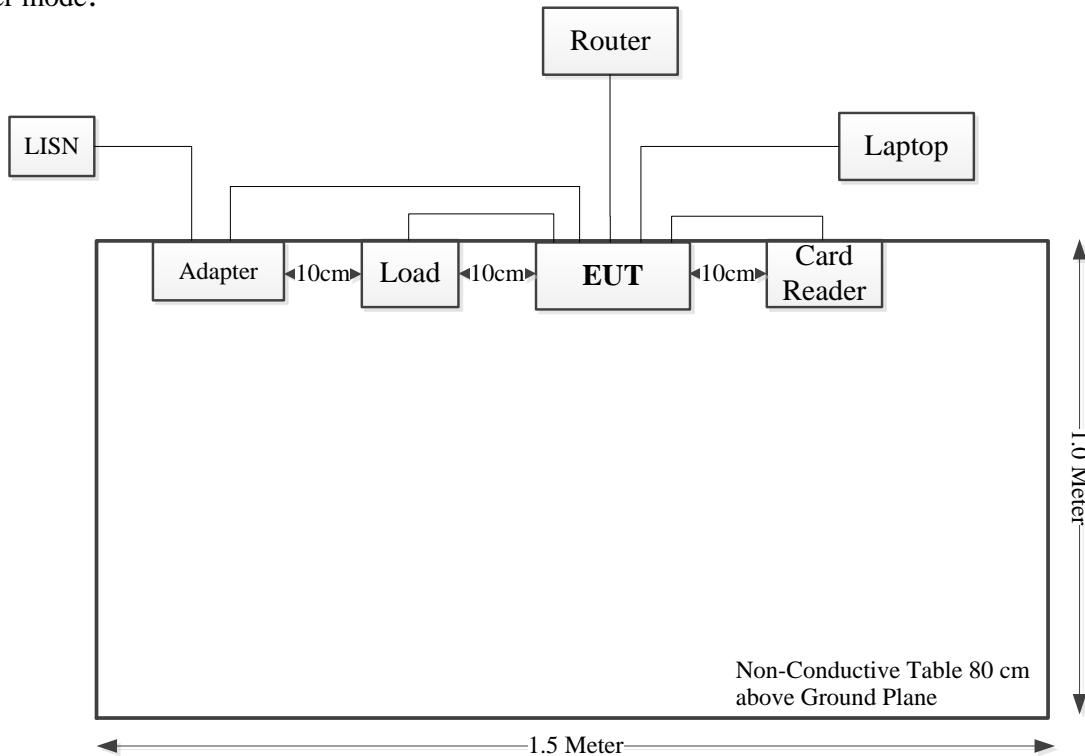
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	No	Yes	3	EUT	Router
RJ45 Cable	No	Yes	3	POE	Router
Power Cable	No	No	1.2	EUT	Adapter
RJ45 Cable	No	No	1	EUT	POE
Serial Cable	No	No	3	EUT	Laptop
Cable	No	No	0.3	EUT	Load
Cable	No	No	0.3	EUT	Card Reader

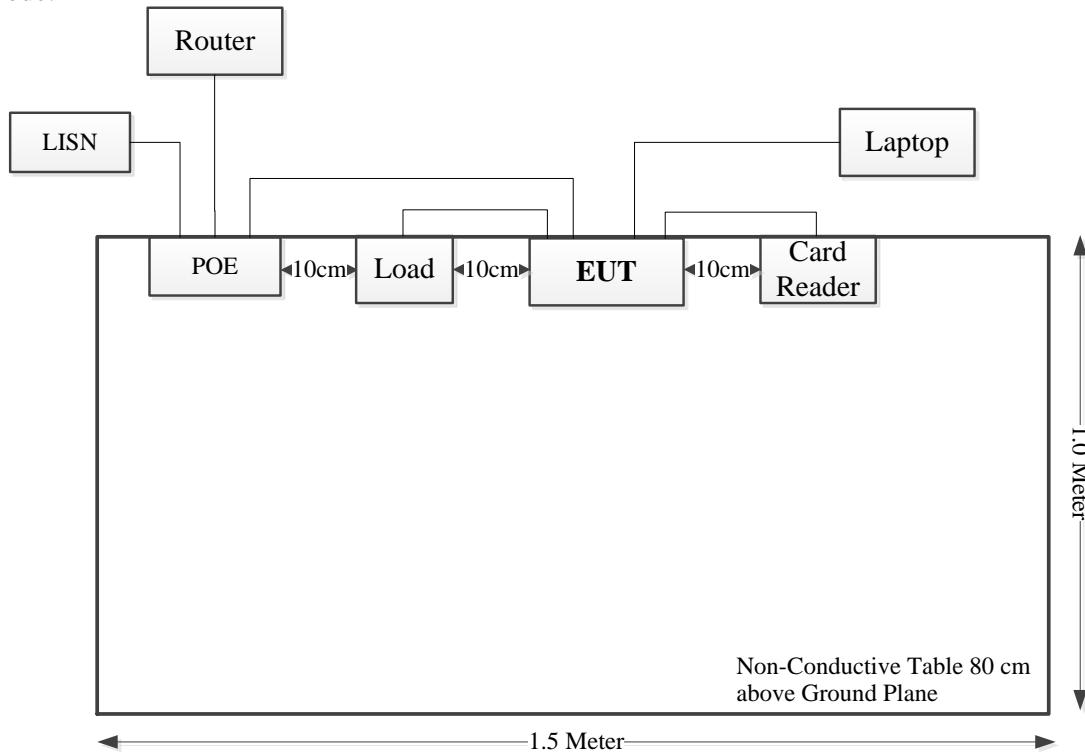
1.2.4 Block Diagram of Test Setup

Conducted Emissions:

Adapter mode:



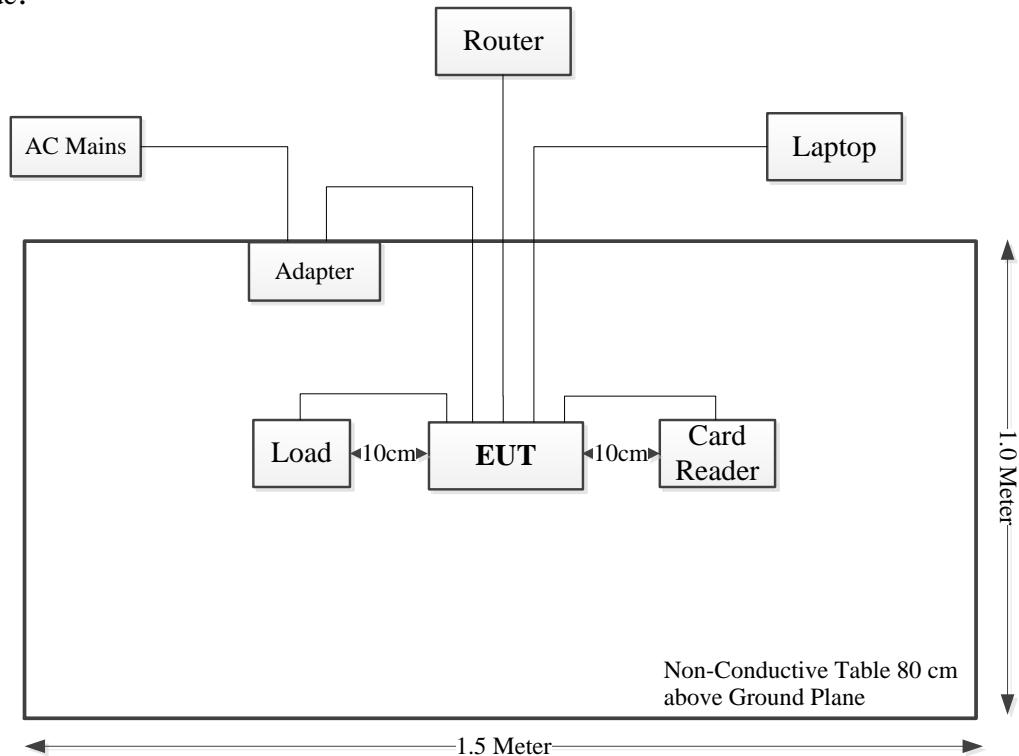
POE mode:



Radiated Emission:

Below 1GHz:

Adapter mode:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
radiated Emissions	9kHz~30MHz: 4.12dB 30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
FCC §15.207	AC Line Conducted Emission	Compliance
FCC §15.209 §15.205	Radiated Emission Test	Compliance
FCC §15.203	Antenna Requirement	Compliance

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC §15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

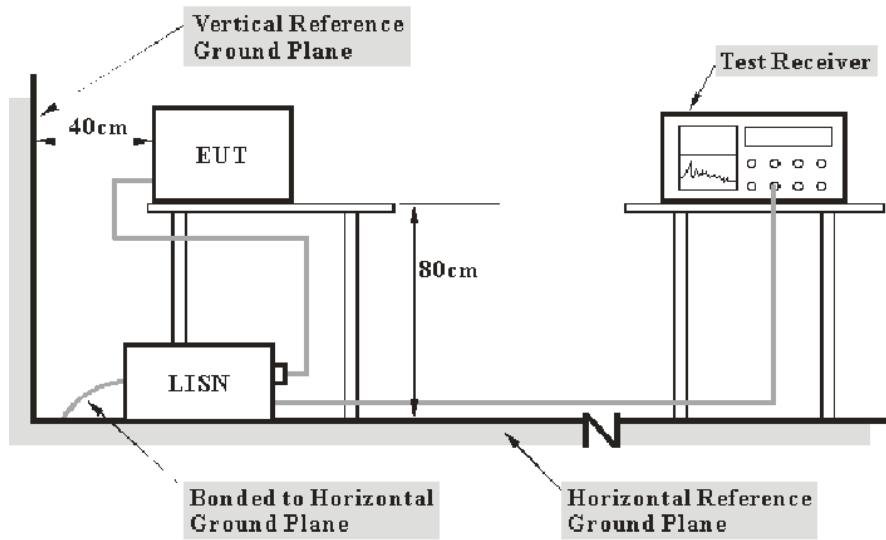
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtainig their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

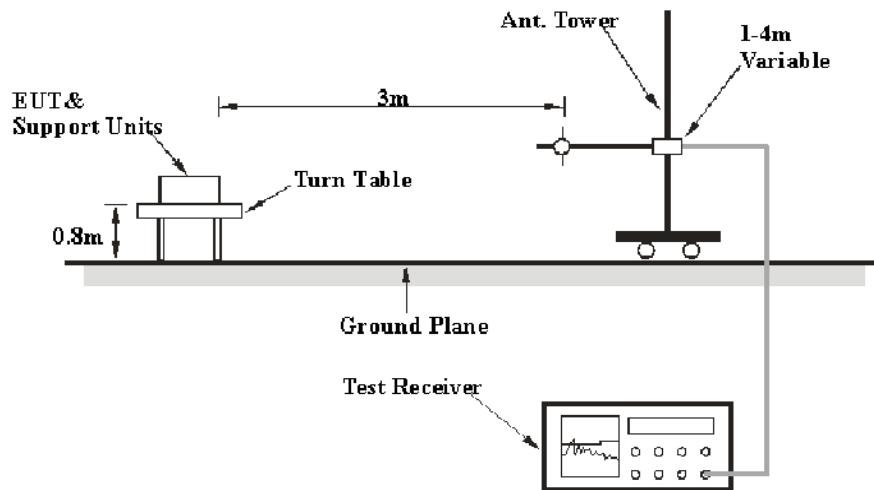
FCC §15.209

(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

3.2.2 EUT Setup



The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 limits.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 1 GHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	Measurement
9 kHz – 150 kHz	200 Hz	1 kHz	QP/Average
150 kHz – 30 MHz	9 kHz	30 kHz	QP/Average
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP/Average measurement

3.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.3 Antenna Requirement

3.3.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.3.2 Judgment

Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR22030053-RF-S1	Test Date:	2022-05-12~2022-05-13
Test Site:	CE	Test Mode:	Transmitting
Tester:	Nick Tang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	24~25.8	Relative Humidity: (%)	68~71	ATM Pressure: (kPa)	100.5~100.9

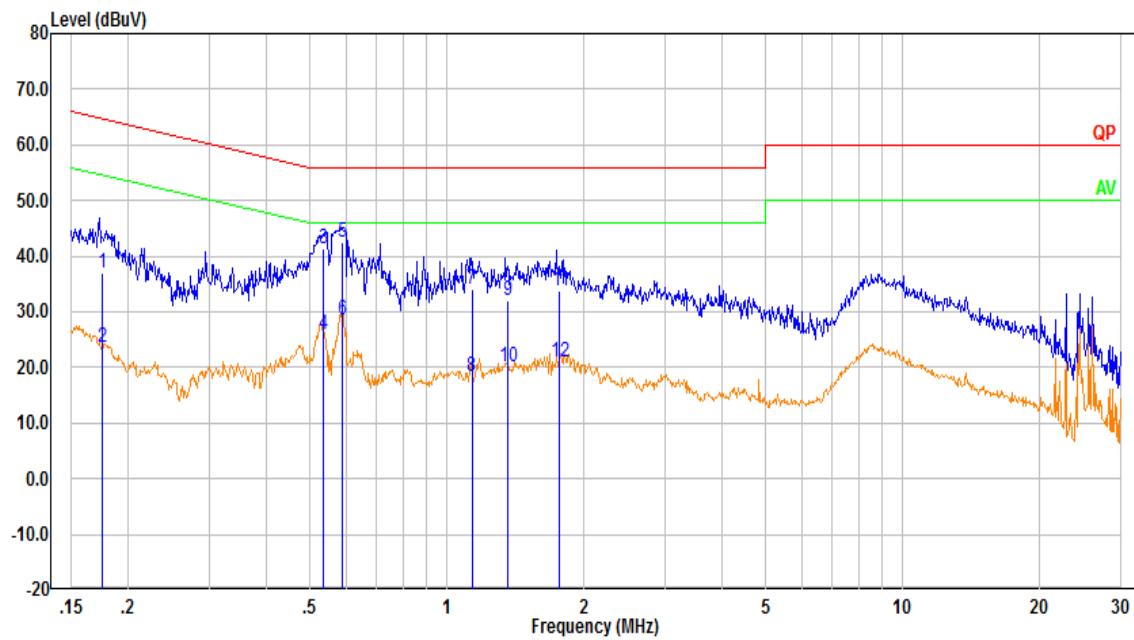
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022-04-01	2023-03-31
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

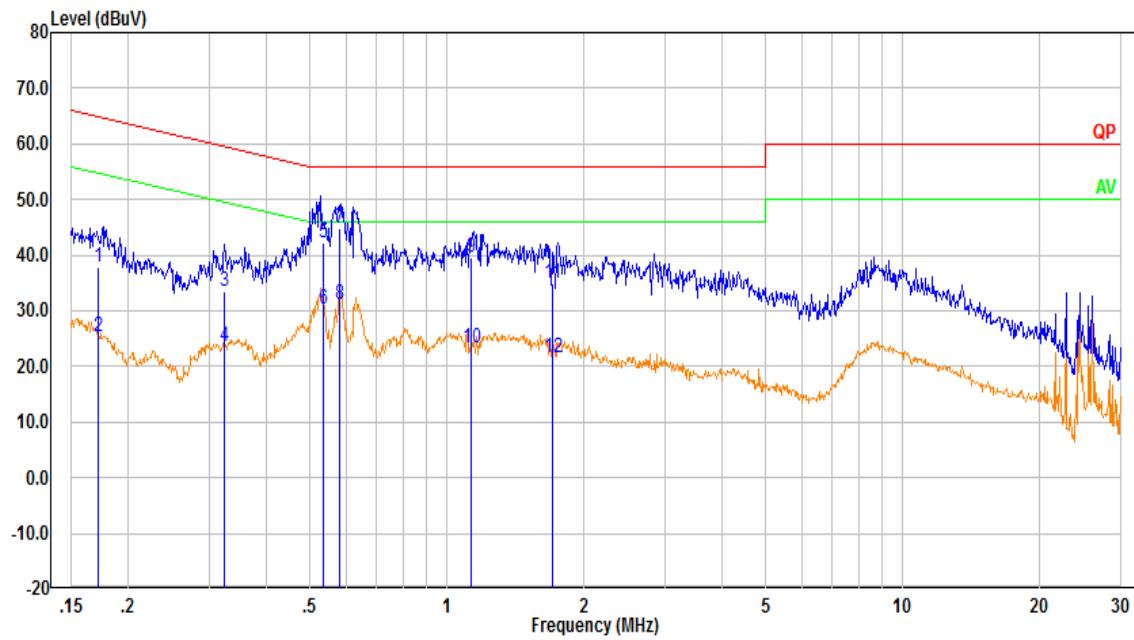
Adapter mode:

Line:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.175	27.38	9.61	36.99	64.73	27.74	QP
2	0.175	13.90	9.61	23.51	54.73	31.22	Average
3	0.537	31.75	9.61	41.36	56.00	14.64	QP
4	0.537	16.34	9.61	25.95	46.00	20.05	Average
5	0.589	32.86	9.62	42.48	56.00	13.52	QP
6	0.589	18.98	9.62	28.60	46.00	17.40	Average
7	1.133	24.51	9.62	34.13	56.00	21.87	QP
8	1.133	8.86	9.62	18.48	46.00	27.52	Average
9	1.359	22.41	9.62	32.03	56.00	23.97	QP
10	1.359	10.46	9.62	20.09	46.00	25.91	Average
11	1.765	24.30	9.63	33.92	56.00	22.08	QP
12	1.765	11.33	9.63	20.96	46.00	25.04	Average

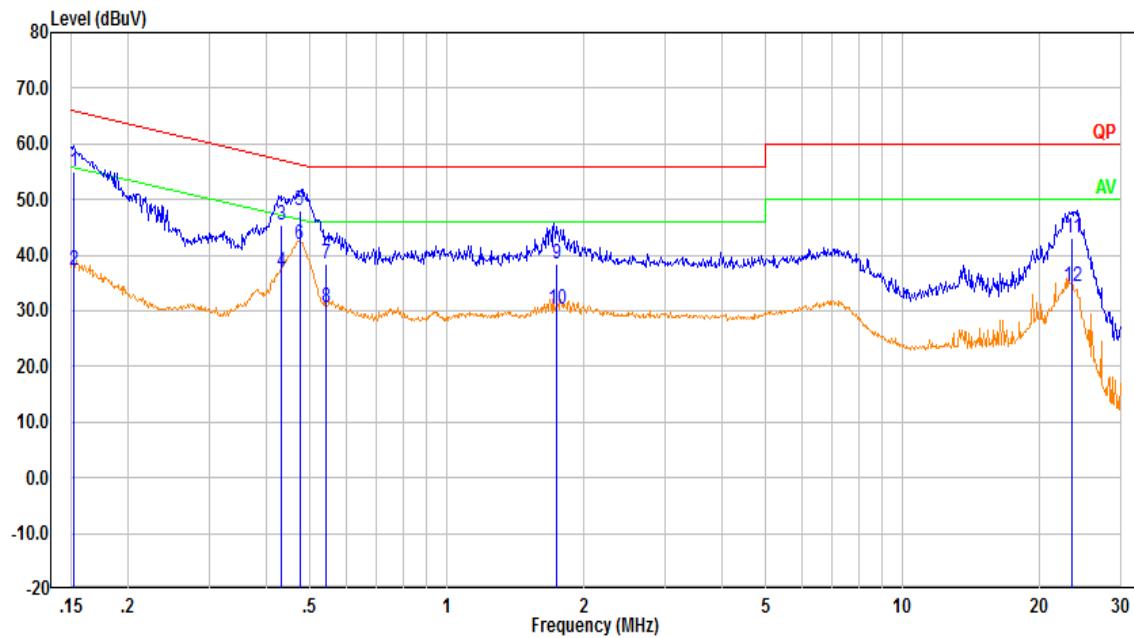
Neutral:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.171	28.36	9.61	37.97	64.90	26.93	QP
2	0.171	15.86	9.61	25.47	54.90	29.43	Average
3	0.323	23.87	9.61	33.48	59.62	26.14	QP
4	0.323	13.89	9.61	23.50	49.62	26.12	Average
5	0.535	32.58	9.61	42.19	56.00	13.81	QP
6	0.535	20.75	9.61	30.36	46.00	15.64	Average
7	0.581	35.26	9.62	44.88	56.00	11.12	QP
8	0.581	21.49	9.62	31.11	46.00	14.89	Average
9	1.133	29.93	9.62	39.55	56.00	16.45	QP
10	1.133	13.70	9.62	23.32	46.00	22.68	Average
11	1.704	25.20	9.63	34.83	56.00	21.17	QP
12	1.704	11.93	9.63	21.56	46.00	24.44	Average

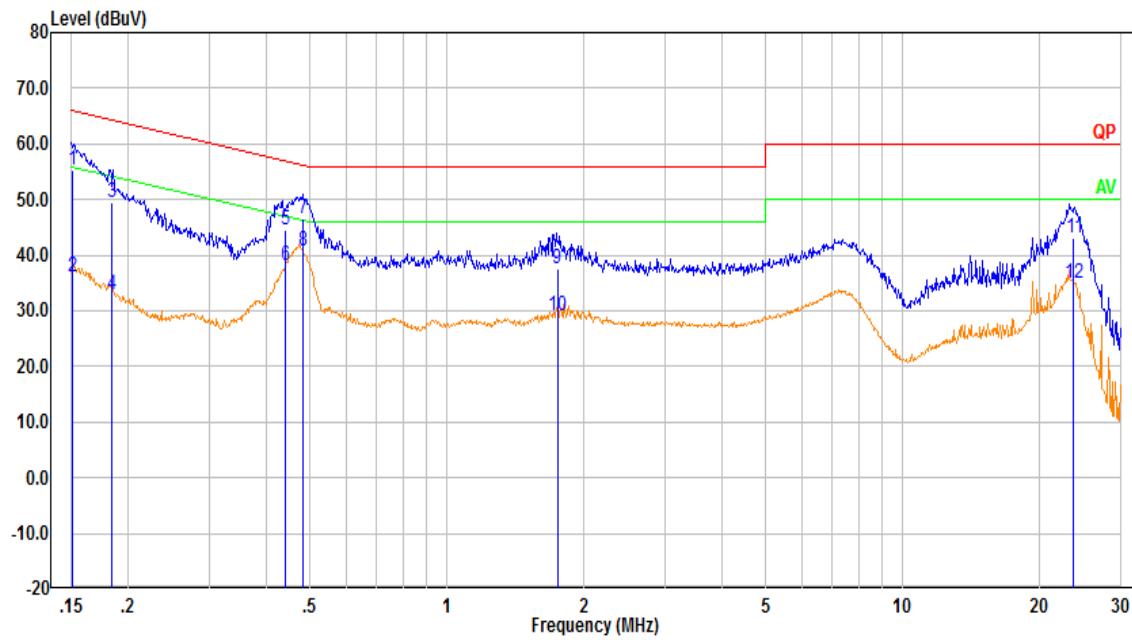
POE mode:

Line:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.152	45.35	9.61	54.96	65.91	10.95	QP
2	0.152	27.66	9.61	37.27	55.91	18.64	Average
3	0.432	35.91	9.61	45.52	57.22	11.70	QP
4	0.432	27.39	9.61	37.00	47.22	10.22	Average
5	0.475	38.33	9.61	47.94	56.43	8.49	QP
6	0.475	32.43	9.61	42.04	46.43	4.39	Average
7	0.544	28.93	9.61	38.55	56.00	17.45	QP
8	0.544	21.02	9.61	30.63	46.00	15.37	Average
9	1.734	28.85	9.63	38.47	56.00	17.53	QP
10	1.734	20.80	9.63	30.43	46.00	15.57	Average
11	23.590	33.34	9.81	43.15	60.00	16.85	QP
12	23.590	24.60	9.81	34.41	50.00	15.59	Average

Neutral:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.151	45.54	9.61	55.15	65.97	10.82	QP
2	0.151	26.59	9.61	36.20	55.97	19.77	Average
3	0.184	39.75	9.61	49.36	64.32	14.96	QP
4	0.184	23.26	9.61	32.87	54.32	21.45	Average
5	0.443	34.85	9.61	44.46	57.00	12.54	QP
6	0.443	28.44	9.61	38.05	47.00	8.95	Average
7	0.482	37.05	9.61	46.66	56.30	9.64	QP
8	0.482	31.04	9.61	40.65	46.30	5.65	Average
9	1.745	28.01	9.63	37.64	56.00	18.36	QP
10	1.745	19.54	9.63	29.17	46.00	16.83	Average
11	23.754	33.31	9.75	43.06	60.00	16.94	QP
12	23.754	25.11	9.75	34.85	50.00	15.15	Average

4.2 Radiation Spurious Emissions

Serial Number:	CR22030053-RF-S1	Test Date:	2022-05-21
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Gary Ling	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	23.2	Relative Humidity: (%)	64	ATM Pressure: (kPa)	100.3

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
TESEQ	HF Loop Antenna	HLA6120	33561	2021-02-03	2024-02-02
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
Audix	Test Software	E3	201021 (V9)	N/A	N/A

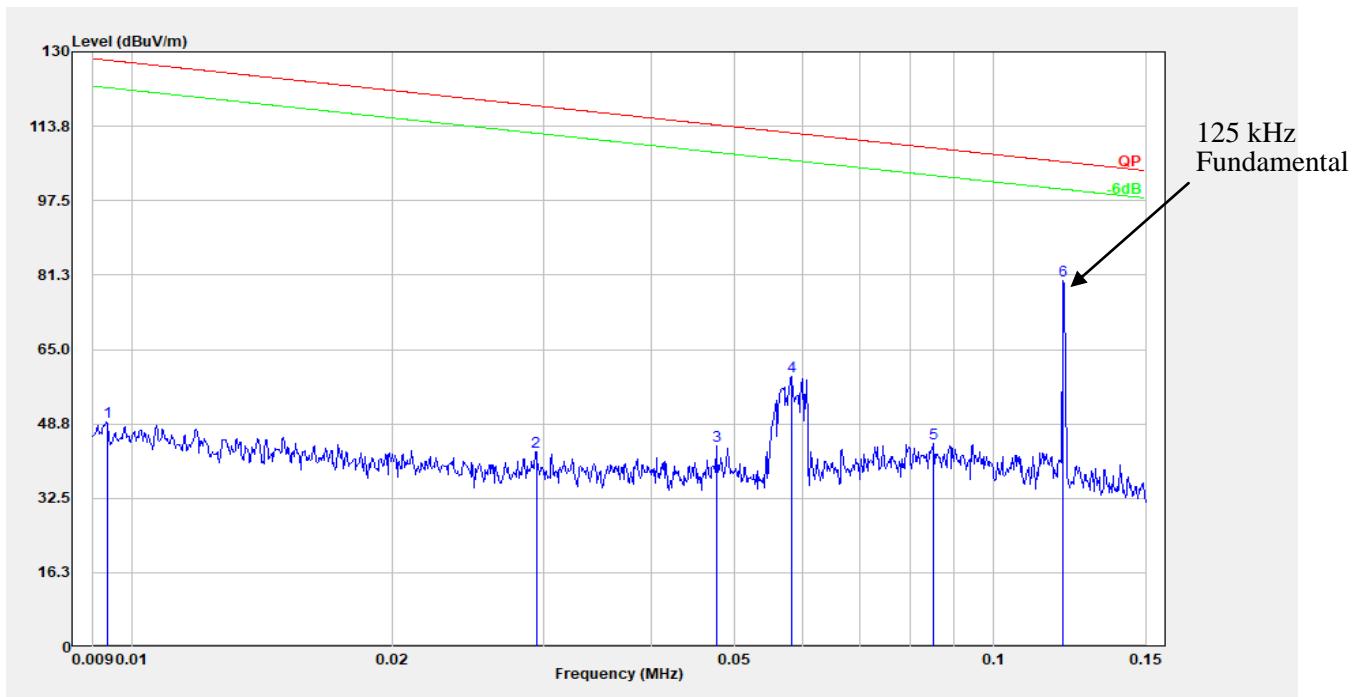
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

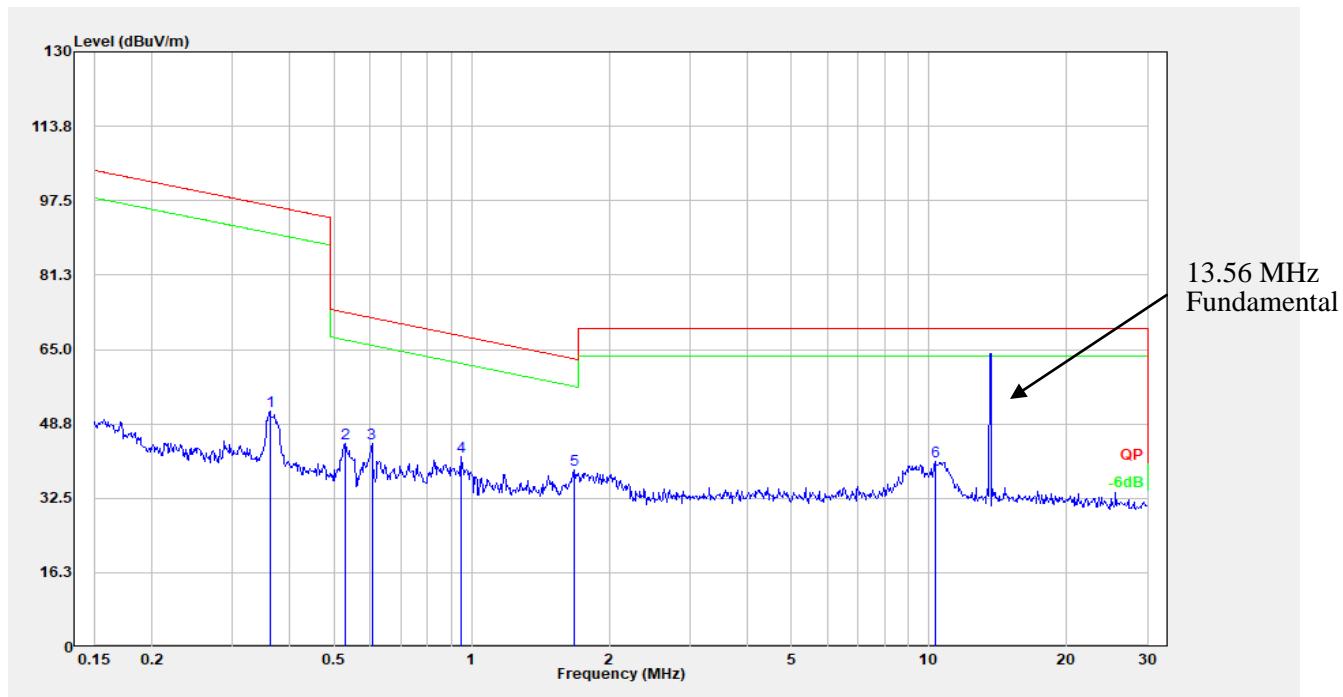
Adapter mode:

1) 9-150 kHz:

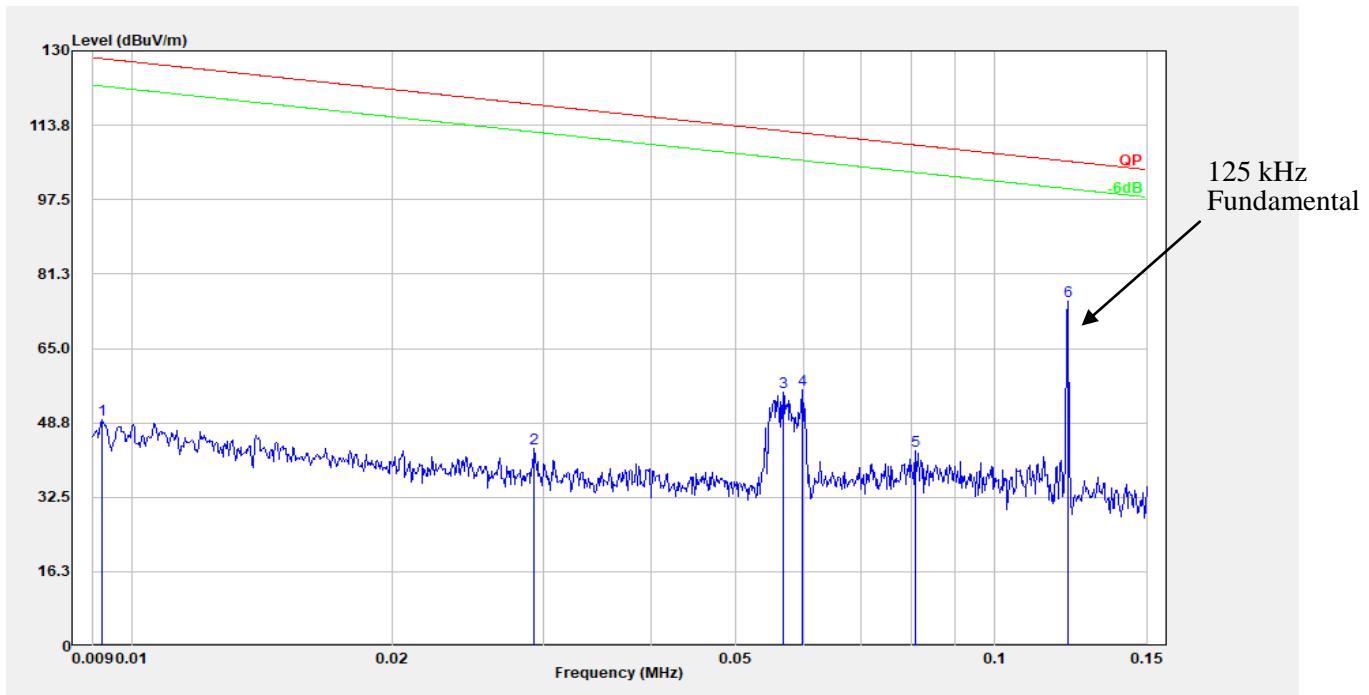
Parallel:



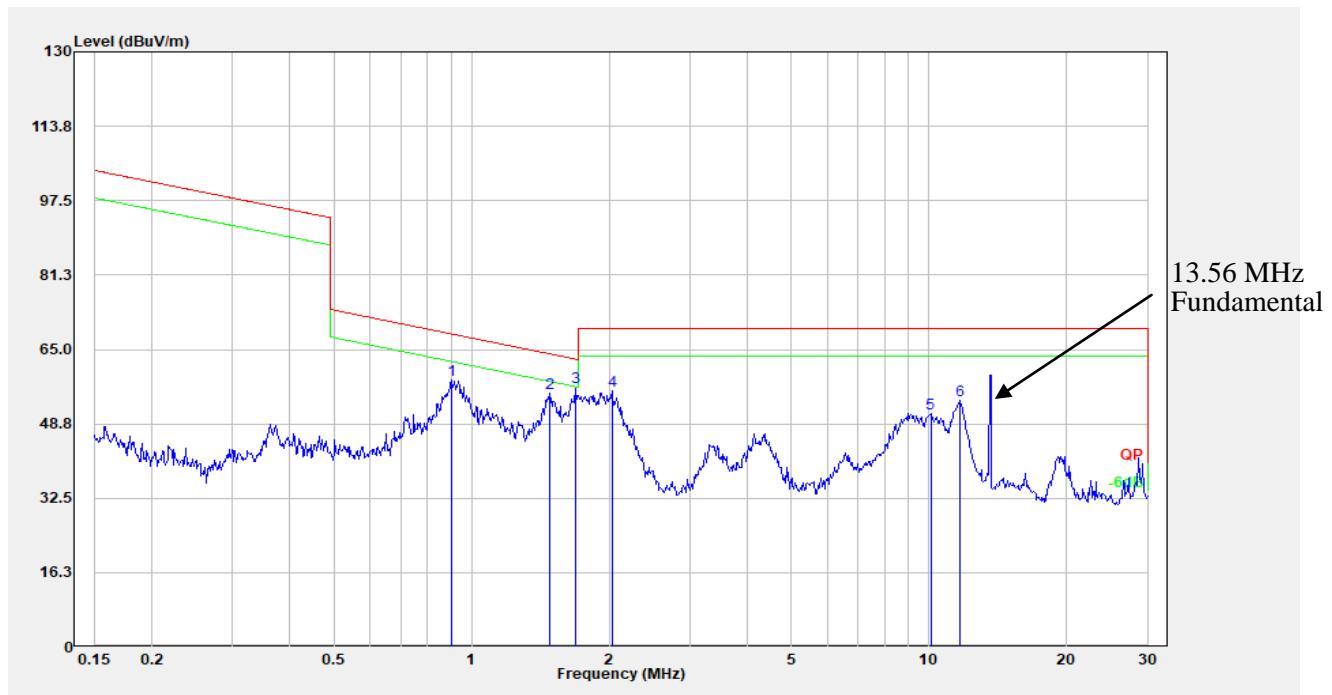
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.009	28.74	20.51	49.25	128.20	78.95	Peak
2	0.029	22.26	20.41	42.67	118.23	75.56	Peak
3	0.048	23.56	20.41	43.97	114.05	70.08	Peak
4	0.058	38.69	20.41	59.10	112.29	53.19	Peak
5	0.085	24.20	20.32	44.52	108.99	64.47	Peak
6	0.125	59.83	20.22	80.05	105.99	25.94	Peak



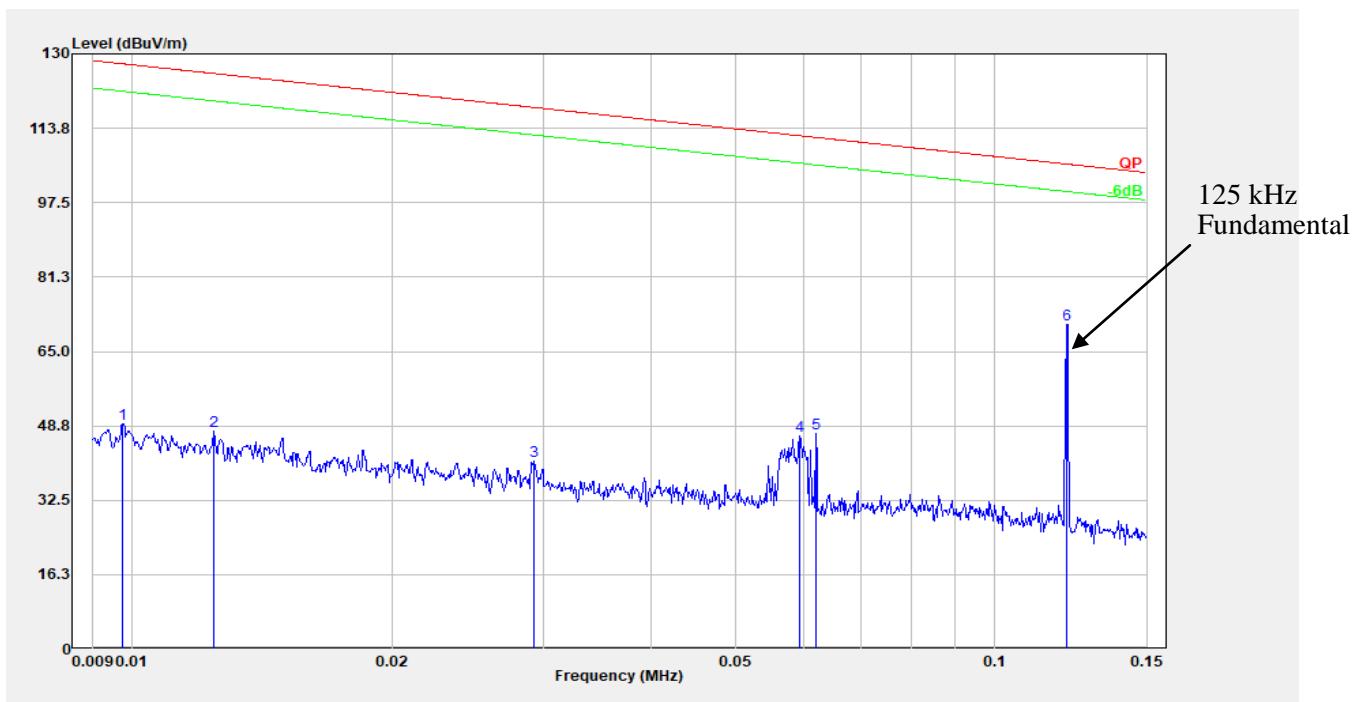
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.361	31.39	20.09	51.48	96.44	44.96	Peak
2	0.529	24.55	20.02	44.57	73.12	28.55	Peak
3	0.604	24.42	20.02	44.44	71.94	27.50	Peak
4	0.948	21.44	20.03	41.47	67.95	26.48	Peak
5	1.671	18.70	19.95	38.65	62.92	24.27	Peak
6	10.288	20.15	20.31	40.46	69.54	29.08	Peak

Perpendicular:

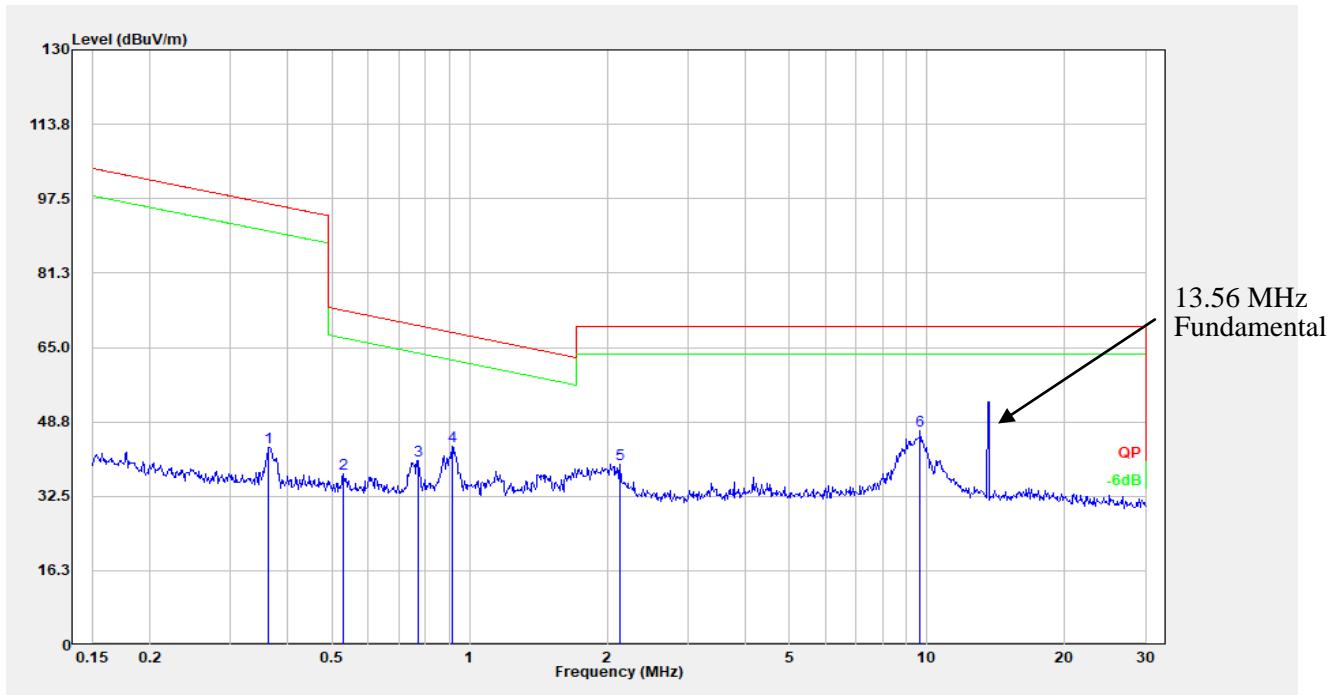
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.009	29.00	20.51	49.51	128.30	78.79	Peak
2	0.029	22.72	20.41	43.13	118.28	75.15	Peak
3	0.057	35.17	20.41	55.58	112.51	56.93	Peak
4	0.060	35.65	20.41	56.06	112.07	56.01	Peak
5	0.081	22.26	20.35	42.61	109.43	66.83	Peak
6	0.125	55.15	20.22	75.37	105.92	30.55	Peak



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.904	38.32	20.03	58.35	68.37	10.02	Peak
2	1.480	35.44	19.95	55.39	64.00	8.61	Peak
3	1.689	36.94	19.95	56.89	62.82	5.93	Peak
4	2.023	36.08	19.96	56.04	69.54	13.50	Peak
5	10.072	30.64	20.30	50.94	69.54	18.60	Peak
6	11.683	33.55	20.34	53.89	69.54	15.65	Peak

Ground-parallel:

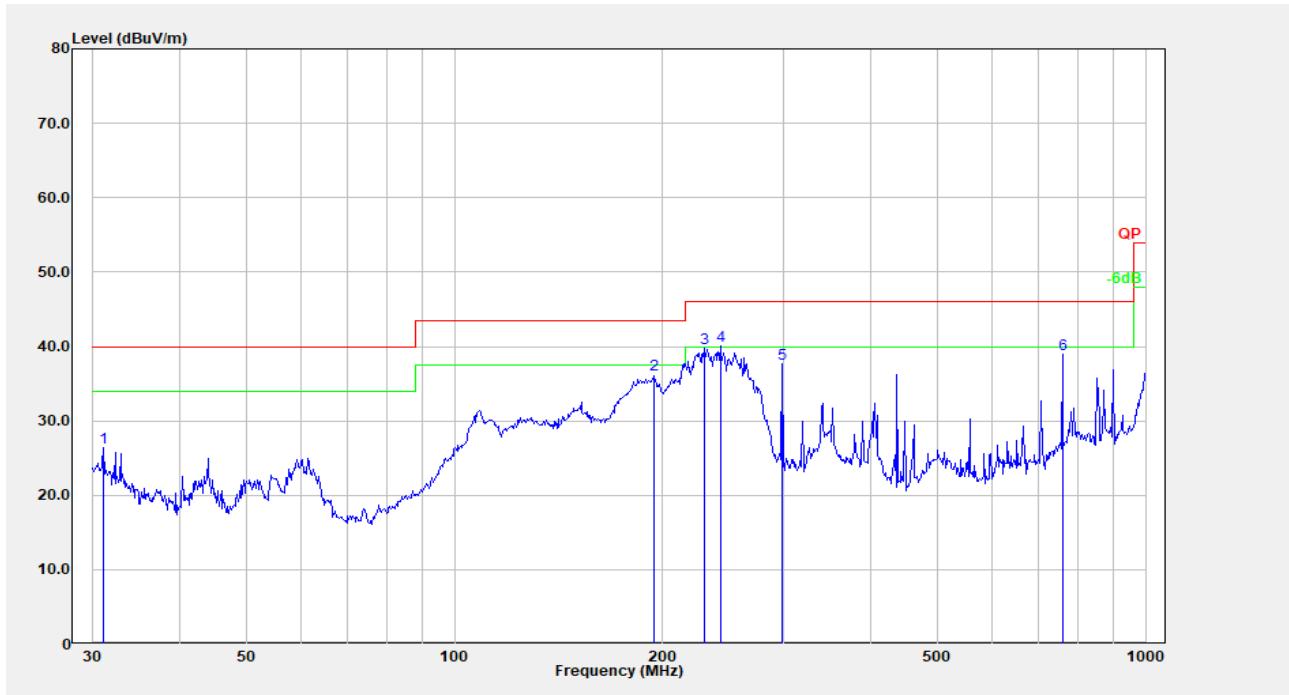
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.010	28.75	20.51	49.26	127.84	78.58	Peak
2	0.012	27.02	20.51	47.53	125.71	78.18	Peak
3	0.029	20.61	20.41	41.02	118.31	77.29	Peak
4	0.059	26.07	20.41	46.48	112.12	65.64	Peak
5	0.062	26.70	20.41	47.11	111.76	64.65	Peak
6	0.125	50.57	20.22	70.79	105.94	35.15	Peak



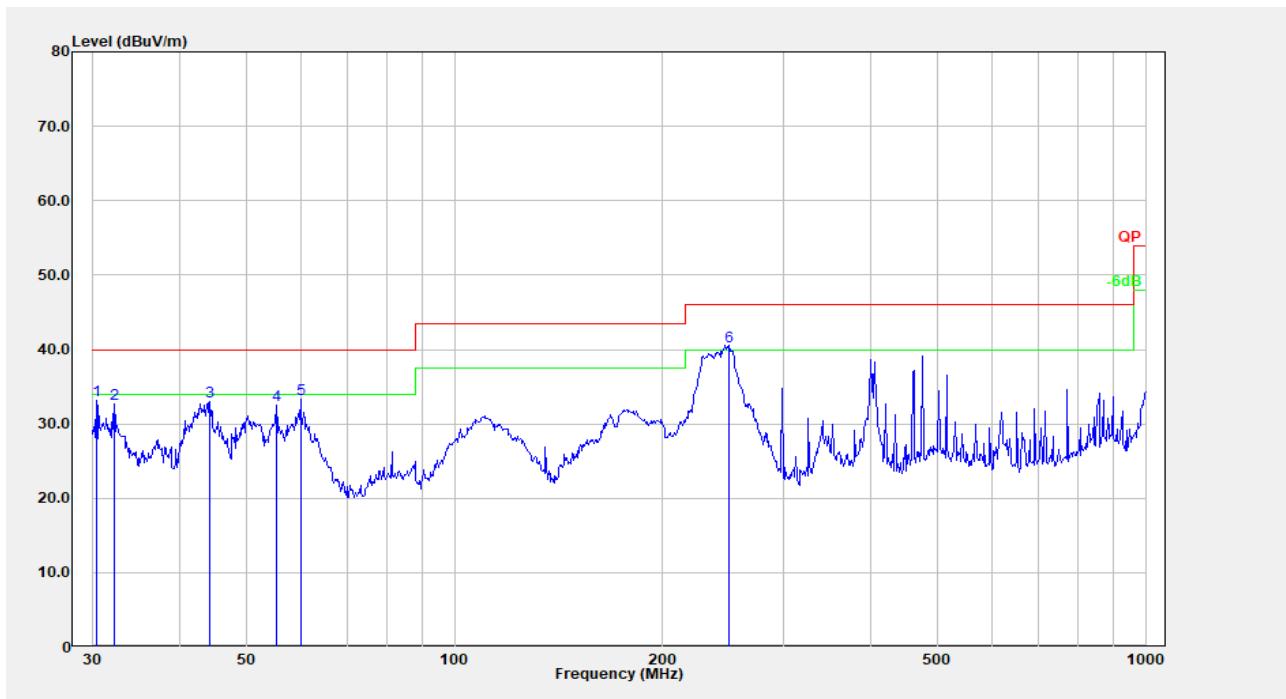
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.361	23.19	20.09	43.28	96.44	53.16	Peak
2	0.529	17.26	20.02	37.28	73.11	35.84	Peak
3	0.771	20.21	20.03	40.24	69.78	29.54	Peak
4	0.914	23.27	20.03	43.30	68.27	24.97	Peak
5	2.133	19.63	19.96	39.59	69.54	29.95	Peak
6	9.654	26.60	20.27	46.87	69.54	22.67	Peak

2) 30MHz-1GHz:

Horizontal:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	31.071	31.07	-4.61	26.46	40.00	13.54	Peak
2	194.453	49.16	-13.02	36.14	43.50	7.36	Peak
3	230.099	52.96	-13.15	39.81	46.00	6.19	Peak
4	242.525	53.15	-13.14	40.01	46.00	5.99	Peak
5	298.268	48.57	-10.86	37.71	46.00	8.29	Peak
6	758.041	42.18	-3.16	39.02	46.00	6.98	Peak

Vertical:

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	30.317	37.12	-4.03	33.09	40.00	6.91	Peak
2	32.179	38.10	-5.46	32.64	40.00	7.36	Peak
3	44.275	47.03	-14.06	32.97	40.00	7.03	Peak
4	55.221	50.02	-17.51	32.51	40.00	7.49	Peak
5	59.859	50.90	-17.64	33.26	40.00	6.74	Peak
6	249.425	53.58	-13.25	40.33	46.00	5.67	QP

***** END OF REPORT *****